

SEQUENCE LISTING

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SeqID 7

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SeqID 18

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SeqID 19

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SeqID 20

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SeqID 21

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SeqID 22

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SeqID 23

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SeqID 24

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SeqID 25

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SeqID 26

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SeqID 27

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SeqID 28

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SeqID 29

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SeqID 31

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SeqID 37

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SeqID 38

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SeqID 39

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SeqID 40

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SeqID 41

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SeqID 42

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SeqID 43

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SeqID 44

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SeqID 45

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SeqID 46

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SeqID 48

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SeqID 49

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SeqID 50

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SeqID 51

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SeqID 52

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SeqID 67

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SeqID 77

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SeqID 78

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SeqID 79

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SeqID 80

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SeqID 81

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SeqID 82

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SeqID 83

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SeqID 84

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SeqID 85

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234

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SeqID 89

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SeqID 91

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SeqID 92

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SeqID 93

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SeqID 99

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SeqID 102

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SeqID 104

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SeqID 113

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SeqID 119

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SeqID 123

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SeqID 124

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SeqID 125

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SeqID 126

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SeqID 127

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SeqID 128

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SeqID 129

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SeqID 130

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SeqID 131

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SeqID 132

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SeqID 133

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SeqID 134

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SeqID 135

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4713

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SeqID 153

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SeqID 155

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SeqID 157

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SeqID 158

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SeqID 159

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SeqID 160

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SeqID 161

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SeqID 162

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SeqID 163

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SeqID 164

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SeqID 165

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SeqID 166

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SeqID 167

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SeqID 178						
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SeqID 181						
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SeqID 182						
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SeqID 183	gcacacctac	acgaagggtg	tcataagtat	ccactaaaaa	gacgcaatct	ttatgagttt	60
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SeqID 184	ccattgaaa	agctccgcga	acattatata	attcctcgga	aaattcgtct	tcaaaaacttt	60
	ccccataga						69
SeqID 185	aagtatacta	ttgcagggtc	tcgtgtcacc	cagcgtcgac	catcattttc	tgttactaaa	60
	gta						63
SeqID 186	gcagcttttt	catcaccagc	agctaaaaac	agagcattca	ttacaacacg	atcttca	57
SeqID 187	tccatgggta	aacaaatata	gttctctgac	catttgatat	cacgttttga	aggcttatgc	60
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	cgtgggcaa						129
SeqID 189	gcacagcctt	cttcaactag	gatatcccct	aaaattgatc	gttttacacc	taag	54
SeqID 190	tgggaatagaa	ctatcaatta	ttttttgaat	aacctgcaat	tgggtgactaa	tatcaagttg	60
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SeqID 192	caacaaagca	ataacaccgc	caattatagt	cgcccctata	aaccttggca	taaaaagaaa	60
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SeqID 193	ttctttgatg	ataccaaagt	taacattcat	tggttggaaa	tgtttgctgt	ctgtatgtgt	60
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SeqID 196	agaatagaga	aggctatcgt	ccctaaaccg	gccattagtg	ttctgatgat	aatctcaagg	60
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ccacaaaaa						489

SeqID 197

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ataggtagata	gaacaaaacg	atcttctagg	ctcaatccat	tgggaagtat	taatggacga	180
aataaattac	cttggacatt	attcatctct	gtccaccgtc	cccttattag	ccatagactt	240
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SeqID 198

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SeqID 199

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tgcagcaaga	gcagttgcaa	gggcagcata	act			153

SeqID 200

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SeqID 201

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SeqID 202

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SeqID 203

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SeqID 204

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SeqID 205

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SeqID 206

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ctt						123

SeqID 207

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SeqID 208

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SeqID 209

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SeqID 210

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SeqID 211

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SeqID 212

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SeqID 213

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SeqID 214

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tctcaatatt tttcattttg g	141

SeqID 215

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SeqID 216

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SeqID 217

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acgtatcggtg ctttcaaaat tgaatttggt tatcaagaaa cctttcaatc gctggaagaa	780
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SeqID 218

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SeqID 219

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VVTKAVEAPKAVVSSTPRAVSKPVVRSYDSSNTYPMGQCTWGAKSMASWVGNYWGNANQWGASARAAGYSVGTTPRV
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SeqID 220

MNKRI FVEKKADFDIKSASLVKELTHNLQLTSLKDLRIVQVYDVFNLAE DLLARA EKHFSEQVTDCLLTETEITAE
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ETELKNIDFSASKFQKQLQATYDKYIAMRDELGRSEKQPOTLMDMATIFGRYERANGRLDDMEVSDEINACSVIEVD
VDGVKEPWLMLMFKNETHNHPTEIEPFGGAATCIGGAIRDPLSGRSYVYQAMRISGAGDITTPIAETRAGKLPQQVIS
KTAAHGYSSYGNQIGLATTYVREYFHPGFVAKRMELGAVVGAAPKENV VREKPEAGDVVILLGCKTGRDGVGGATGS
SKVQTVESVETAGAEVQKGNAI EERKIQR LFRNGNVTRLIKKSNDFGAGGVCVAIGELADGLEIDL DKVPLKYQGLN
GTEIAISESQERMSVVVRPSD VDTFIAACNKENIDAVVATITAKPNL VMTWDGETIVDLERRFLDTNGVRVVVDAK
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SAVKYFTGK

SeqID 221

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APVAKVAPVRTVAAPRVASVKVVT PKVETGASPEHVSAPAVPVTTTSPATDSKLQATEVKSVPVAQKAPTATPVAQP
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SeqID 222

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EYTTNDFVMIDL YLLCFSINYG MKSLYSL ENYHFIMSKLLEQDNLLPEDNFQ LNNVLLNHVELAFQFKQKKYVQQII
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SeqID 223

MTEKTKAVETTDVALAIDTLVQNGLKALDEMROLNQEQVDYIVAKASVAALDAHGELALHAVEETGRGVFEDKATKN
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LNPNI V GKSAVWIAEQAGFTVPEGTNILAABCTEVSEKEPLTREKLSPVIAVLKAESTEDGVEKARQMVEFNGLGHS
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SeqID 224

VGIKVYKPTTNGRRNMTSLDFAEIT TNTPEKSLLVSLKNKAGRNNNGRITVRHQGGGHRHRYRLIDFKRNKDGVEAV
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IRAAGASAOVLGOEGKYVLRLQSGEVRMILGTCRATIGTVGNEQQSLVNIGKAGNRWKGV RPTVRG SVMNPNDRH
HGGGEGKAPVGRKAPSTPWGKPALGLKTRNKKAKSDKLIVRRRNQK

SeqID 225

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DDAPVGTLAVD SIYTPVKVNYQVEPARVGSNDGFDKLTIEIMTNGTIIPEDALGLSARVLI EHLNLFDTL TEVAKA
TEVMKETEKVNDEKVLDR TIEELDLSVRSYNCLKRAGINTVFDLTEKTEPEMMKVRNLGRKSLEEVKIKLADLGLGL
KN DK

SeqID 226

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GQASSVEQLKKNL PALFIHGDKDNFVPTSMVYDNYKATAGKKEL YIVKGAKHAKSFETEPEKYEKR ISSFLKKYEK

SeqID 227

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SeqID 228

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IYLVTKDNVEKYNW

SeqID 229

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HAMYEQKYPLVSALSRPIIAQKLVEMAHQTGATTIAHGCTGKGNDQVRFEVAIAALDPELKV IAPVREWKWHREBEI
TFAKANGVPIPADLNDPYSIDQNLWGRANECGVLENPNWQAPEEAFGITKSPPEAPDCAEYIDITFQNGKPIAINNQ
EMTLADLILSLNEIAGKHGIGRIDHVENRLVGIKSRBIYECPAAMVLLAAHKEIEDLTLVREVS HFKPILENELSNL
IYNALWFSPATKAI IAYVKETQKVNGTTKV KLYKGS AKVVARHSSNSLYDENLATYTAADNFDQDAAVGF IKLWGL
PTQVNAQVNKG

SeqID 230

MAKVCYFTGRKTVSGNNRSHAMNQTKRTVKPNLQKVTVLIDGKPKKVWVSARALKSGKVERV

SeqID 231

MAKQKNNWRRVGVGLTLASVATLAACGSKSASQDSNGAINWAIPT EINTLDLSKVTD TYSNL AIGNSSSNFLRLDK
DGKTRPDLATKVDVSKDGLTYTATLRKGLKWS DGSKLTAKDFVYSWQRLVDPKTASQYAYLAVEGHVLNADKINEGQ
EKDLNKLGVKAEGDDKV VITLSSPSPQFIY YLAFTNFM PQKQEVVEKYGKD YATTSKNTVYSGPYTVEGWNGSNGTF
TLKKNKNYWD AKNVKTKEVRIQT VKKPD TAVQMYKRGE L DAANI SNTSAIYQANKNNKDVTDVLEATTAYMQYNTTG
SVKGLDNVKIRRALNLATNRKGVVQA AVDTGSKPAIAFAPTGLAKTPDGTDLAKYVAPGYEYNKTEAAKLFKEGLAE
SGLTKLKLITITADADVPAAKNSVDYIKSTWEAALPGLTVBEKFVTFKQRL EDSRKQNF DIVSVWGGDYPEGSTFYG
LFKSDSQNNDGKFANKDYDAAYNKAI SEDALKPEESAKDYKEBKILFEQ GAYNPLYFRSGKGLQNP KLKGVIRNTT
GLSIDFTHAYKK

SeqID 232

MELLKTPIFGICFSLILYITIGQHLFKKSKGFFLLQPLFFAMVSGIVILWLSKGLGTDVKT FYTQAYKPGGD LIFWF
LNPATIAFAVPLYKKNDVVKYVWEILSSLVIGMIVSLMLIVAI SKMVGLSQVGIASMLPQAATT AIALPITAAIGG
NTAVTAMACILNAVIIYALGKKLV SFFHLNDSKIGAGLGLTSGHTVGA AFALELGELQGAMAAI AVVVIGLVVDLV
IPIFSHLIGLL

SeqID 233

VTKYLYKISFVALFLASIFLVACQNQNSQTKERTRKQRPKDEL VVSMGAKLPHEFDPKDRYGIHNEGNI THSTLLKR
SPELDIKGELAKKYKISKDGLTWSFDLND DFKFSNGEPVTADDVKFTYDMLKADGKAWDLTFIKNVEVVGKNQVNIH
LTEAHSTFTAQLTEIPIVPKKHYN DYKYSNP IGS GPYMVKEYKAGEQAI FVRNPYWHGKKPYFKKWTWVLLDENTAL
AALES GDVDM IYATPELASKKVKGTRLLDIASNDVRGLSLPYVKKGVVKNSPDGY PVGNDVTSDPAIRKALTIGLNR
QKVLDTVLNGY GKPAYSII DRTPFWNP KTAIKDNKVAKAKQLLT KAGWKEQADGSRKKGNLKA EFDLYYPTNDQLRA
NLAVEVAEQAKALGITTIKLASNWDEMATKSHDSALLYAGGRHHAQQFYESHYPSLAGKGWNTNITFYNNPTVTKYLD
KAMTSPDL DKANKYWKLAQWDGKTGASTLGDLPNVWL VLSLNHTYIIGDKRINVGKQGVHSHGH DWSLLTNIAEWTWDE
SAK

SeqID 234

MGQEPPIIEYQNTINKVYGENVAVEDINLKIYPGDFVCFIGTSGSGKTTLMRMVNHMLKPTNGTLLFKGKDISTINPLE
LRRRIGYVIONIGLMPHMTIYENIVLPKLLKWESEAKRAKARELIKVELPEEYLD RYPSELSGGQQQRIGVIRAL
AADQDIILMDPEFGALDPITREGIQDLVKSLQEEMGKTIILVTHDMDEALKLATKIIVMDNGKMVGEGTPNDLLHHP
ATSFEQMGIGEERLLHAQADITPVKQIMLNNPVSITAECTITLRAITLMRQKRVDLLVTDNGKLIGFIDLESLSKY
KKDRLVSDILKHTDFYVMEDDLLRNTAERILKRGKYAPVVDHENNLKGIVTRASLVDMLYDIIWGDTETEDQ

SeqID 235

MKIDKKEFLALIASIILLIFASVTFFLFKDHGTTQMDTVESSVNHVSDSQLTEAQDMLDKFEKPKSEKLLKDELAL
NKLSSSSKKEALQKRFFKAKDKYLKDEADKKATKDADTLVEILEQAPSEENVLKAEEAVNKLTVKESKEALQKRIDT
VKTQYGLIGNQTPSSSVAETTEQGTANPASQDTSYVNQNVAPTYEQPQTNNTPVTPGVNNTVPTPGTGTAPATNGT
GVAQ

SeqID 236

MTKDLLLELGLLELPAYVVTPSEKQLGQKMVKFLEDHRLSFETVQTFSTPRRLAVRVKGLADQOTDLTDFKGPSK
IALDAEGNFSKAAQGFVRGKGLSVDDIEFREVKGEEYVYTKHETGKSAIDVLASVTEVLTELTPVNMHWANNSFE
YIRPVHTLVLLDDQALELDPLDIHSGRISRGHRLFGSDTEILSASSYEDDLRQQFVIADAKERQOMIVDQIHAE
KENISVEIDEDLLNEVLNLVRYPTAFLGSFDEKYLDVPEEVLVTSMKNHQRYFVVRDRDGKLLPNFISVRNGNABHI
ENVIKGNKVLVARLEDGEFFWQEDQKLNIALDVEKLVQVTFHEKIGSLYEHMDRVKVISQYLAEKADLSDEEKLV
LRAASIYKFDLLTGMVDEFEDELQOGIMGEKYALLAGEQPAVAAAIREHYMPTSADGELPETRVGAILALADKFDLTL
FFSVGLIPSGSNDPYALRRATQGIVRILEAFGWDIPLDELVTNLYGLSFASLDYANQKEVMAFISARIEKMIGSKVP
KDIREAVLESPTYIVSLILEASQALVQKSKDAQYKVSIESLSRAFNLAEKVTHSVSDYSLFENNQEKALYQAILSL
ELTEDMHDNLDKLFALSPILNDFDNTMVMMDDEKMKQNRLLNLSLVAKARTVAAFNLLNTK

SeqID 237

MTFDTIDQLAVNTVRTLSIDAIQAANS GHPLPMGAAPMAYVLWNKFLNVNPKTSRNWNTNRDRFVLSAGHGSALLY
LLHLAGYDLSIDDLKQFRQWGSKTPGHPEVNHTDGVEATTGPLGQGIANAVGMAMAEHLAAKFNKPGFDLVDHYTY
TLHGDCCLMEGVSQEAASLAGHLKGLKLVLLYDSNDISLDGPTSQSFTEDVKGRFESYGWQHILVKDGNLDEAIAAA
IEAAKAETDKPTIIEVKTIIGFGAEKQGTSSVHGAPLGAEGITFAKKAYGWEYDPFTVPAEVVARFASDLQARGAKA
EEAWNDFAKYEVEYPELAAEYKEAFAGQAEVELKAHDLGSSVASRVSSQAIQQLSTQLPNLWGGSSADLSASNT
MVAETDFQASNYAGRNIWFGVREFAMAAAMNGIALHGGTRVYGGTFFVFSNYLLPAVRMAALQNLPTVYVMTHDSI
AVGEDGPTHEPIELASVRSMPNLNVIRPADGNETNAAWQRAVSETDRPTMLVLTRQNLVLEGTSELAQEGVNKGA
YILSEAKGELDGIILATGSEVKLALDQDKLESEGIHVRVVSMPAQNIQFDEQEASYQEQLPSAVTKRLAIEAGSSF
GWGKYVGLNGLTLTIDTWGASAPGNRIFEYGFVENAVSLYKEL

SeqID 238

MTLQDQIIKELGVKPVINPSQIBRRSVEFLKDYLLKHSFLKTYVLGISGGQDSTLAGRIAQLAVEELRADTGENVYQF
IAIRLPYGIQADEEDAQKALDFIKPDIALTINIKEAVDQVRALNAAGVEITDFNKGNIKARQRMISQYAVAGQYAG
AVIGTDHAAENITGFFTKFGDGGADLLPLFRLNKSQKQLLAELGADKALYEKIPTADLEENKPGIADEIALGVTYQ
EIDAYLEGKVVSDBSRGIIENWWYKGQKRLHPITIFDDFWK

SeqID 239

IKKESVIKLLKYAFGIIMGFIIAIVIGLLFAYYVSRSPKLTQALKSVNSSLVYDGNKLIADLGSEKRESVSAD
SIPLNLVNATSIEDKRFFKRGVDIYRILGAAWNHLVSSNTQGGSTLDQQLIKLAYFSTNKSQDLTKRKSQEVWLA
LQMERKYTKKEIILTFYINKVYMGNGNYGMRTTAKSYFGKDLKELSLAQLALLAGIPQAPTQYDFYKNPESAQTRRNT
VLQOMYQDKNISKEYDQAVATPVTDGLKELKQKSTYPKYMDNYLKQVISEVKQKTGKDIFTAGLKVYTNINTDAQK
QLYDIYNSDTYIAYPNNELQIASTIMDATNGKVIAQLGGRHQENENISFGTNQSVLTD RDWGSTMKPI SAYAPAI
VYNSTGQSLNDSVYWPGTSTQLYDWDROQYMGWMSMTAIQSRNVPAVRALEAAGLDEAKSFLEKLGIIYYPENMYS
NAISSNNSSSDAKYGASSEKMAAAYSFAFANGGTYYPQYVNKIEFSDGTNDTYAASGSRAMKETTYAMMTDMLKTVL
TFGTGTAAIPGVAQAGKTGTSNYTEDELAKIEATTGIYNSAVGTMAPDENFVGYSKYTMAIWTGYKNRLTPLYGS
QLDIATEVYRAMMSYLTGGYSADWTMPEGLYRSGSYLYINGTTTTGTYSYSSVYKNIYQNSGQSSQSSSSSTSSEKQKE
DKNTANDANSSSPQVETPNNGNATTPNNSNQTVPGTGHGNGNGNNNTVPNGN

SeqID 240

MLDLKRIRTFDFVAKKLATRGVDQETLTTLKELDIKRELLIKAEAEAKAQRNVASAAIAQAKRNKENADEQIAAMQ
TSLADIKAI DAELADVDANLQSMVTVLENTPADDVPLGADEDENVEVRRWGTREFDFETKAHWDLGESLGILDWER
GAKVTGSRFLFYKGLGARLERAIYSFMLDEHAKGEYTEVIPPYMNHDSMFGTGQYPKFKEDTFELADSPFVLIPTA
EVPLTNYRDEIIDGKELPIYFAMSPSFRSEAGSAGRDTRGLIRLHQFHKVEMVKFAKPEESYQELEKMTANAENI
LQKLNLPYRVITLCTGDMGFSAAKTYDLEWIPAQNTYREISSCSNTEDFQARRAQIRYRDEVDGKVRLLHTLNGSG
LAVGRTVAAILENYQNEGGSVTIPEVLRPYMGNIDIIPKN

SeqID 241

VTISNQELTLTPLRGKSGKAYIGTYPNGERVFVKYNTTPILPALAKEQIAPQLLWARRTSNGDMMSAQEWLDGRTLT
KEDMGSKQIHIHLLRLHKSRLPNVQLQLGYKIENPYDLLMDWEKQTPIQIRENTYLSIVTELKRSLEFRTEVAT
IVHGDIKHSNWVITTSGLIYLVWDVRLTDRMYDVAYILSHYIPQKHWDWLSYGYKDNKVVWSKIWIYGFQFSYL
SQIICKFCDKRDMEHVNQEIYELRKFRRELKHNAS

SeqID 242

MKISQYNKWSIRRLKVGAASVMIASGSIVALGQSHIVSADEMSQPKTTITAPTANTSTNVESSTDKALSKVTTMTES
SEMPKMQNMAKVEKTSDBKPMVATSVRKMMATPTFVAMTKTTSVDEVKKSTDFAFKQTVDPVPAHYVNAAGNGPFLA
GVNQTIPIYEAFFGGDGMLTRILILKSSEGAWSNDNGVDKNSPLLPLKGLTKGKYFYQVSLNGNTTGKEGQALLDQIKAN
DKHSYQATIRVYGAADGKVDLKNMISQKMTINIPHITTDMEVKNLSKMAFKEKVDVPAKYVSAAKAKGPFLAGVNE
TIPYEAFFGGDGMLTRILILKASEGAWSNDNGVDKNSPLLPLKDLTKGKYFYQVSLNGNTAGKKGQALLDQIKANGSHT
YQATITTIYGTGDKGKVDMMNTILGQKTVMIHINVAKKDMNSTSMKKDKMTMPMKKEMTSKINTGMMMSNNKMSANM
QMSSQAKSNDKAGKMSMMSKNLPNTGETKQQNVGVGLGMLSLAFATGLTALGLKSKQR

SeqID 243

MTHITFDYSKVLGQFVGEHELDYLPQVSAADAFLRQGTGPGSDFLGWMDLPENYDKEEFSRIQKAAEKIKSDSEVL
VWIGIGGSYLGAKAADIDFLNNHFANLQTAEERKAPQILYAGNSISSTYLADLVEYVQDKEFSVNVISKSGTTTEPAI
AFRVFKELLVKKYGQEEANKRIYATTDKVKGAVKVEADANNWETFVVPDNGGRFVSLTAVGLLPAAAGADITATLM
EGANAARKDLSSDKISENIAYQYAAVRNVLYRKYITEILANYEPSLQYFGEWWKQLAGESEKDKQGIYPTSANFS
TDLHSLGQFIQEGYRNLFTFVVRVEKPRKNVTIPELTEDLDGLGYLQGGKDVDFVNKKATDGVLLAHTDGGVFNMFVT
LPTQDAYTLGYTIYFFELAIGLSGYLNSVNPFDQPGVEAYKRNMFALLGKPGFEELSALNARL

SeqID 244

MKEKQTAGRRQLEEFAPFARYNDDILFGEVWAKEDHLTDKTRSIITISALISGGNLEQLEHHLQFAKQNGVTKEEI
ADIITHLAFYVGWPKAWSAFNKAKEIWI

SeqID 245

AWRALEDAQKSGKVKSIGVSNFLEKDLENILKNGHVKPAVNQILAHIGNTPFDLIDYCQSKGIQVEAYSPIAHGQAL
KSDGIQKMAEKYGVSVQAQLCIQYLLQLNLIVLPKASSKEHLQSNLDFDFVISDEDMSSILKSLMFDDYGEFSNFPVFS
EK

SeqID 246

MFRRSKNNSYDTSQTKQRFSSIKKFKFGAASVLIGLSFLGGVTQGNLNI FEESIVAASTIPGSAATLNTSITKNIQNG
NAYIDLVDVKNGLIDPQNLIVLNPSSYSANYIYKQAKYYSNPSEITTTGSATITFNILDETGNPHKKADGQIDIVS
VNLTIYDSTALNRIDEVINNANDPKWSDGSRDEVLTGLEKIKKIDNNPKTQIDIDNKINEVNEIEKLLVVSLLPDK
IKYSPEAKHRTVEQHAELDAKDSIANTDELPSNSTYNWKNHGPDTSTSGEKDGI VEHYPDGTVDVNVKVTVTSTK
KTDNTAPTTLTPTPEQQTQVKVDEIDITFTVTAEDENEVELGLDDLKAKYENDIIGARVKIKYLTKEPNKKVMEVTIMKA
TLADKGAITFTAKDKAGNQAEPKTFTINVLPPDKIKYSPEAKHRTVEQHAELDAKDSIANTDELPSNSTYNWKNHGHK
PDTSTSGEKDGI VEHYPDGTVDVNVKVTVTSTKTDNTAPTTLTPTPEQQTQVKVDEIDITFTVTAEDENEVELGLDDL
KAKYENDIIGARVKIKYLTKEPNKKVMEVTIMKATLADKGAITFTAKDKAGNQAEPKTFTINVLPPDKIKYSPEAKH
RTVEQHAELDAKDSIANTDELPSNSTYNWKNHGPDTSTPGEKNAV VVTYPDKSTDEVPVKVTVDPRDPAEKNDP
AGKDQTVKVGEPDPPTKSLEAVPAGSTVAYKEPVDTKTPGEKNAIVVVTYPDKSTDEVPVKVTVDPRDPAEKNDP
GKDQTVKVGEPDPPTKSLEAVPAGSTVAYKEPVDTKTPGEKNAV VVTYPDKSTDEVPVKVTVDPRDPAEKNDP
KDQTVKVGEPDPPTKSLEAVPAGSTVAYKEPVDTKTPGEKNAV VVTYPDKSTDEVPVKVTVDPRDPAEKNDP
DQTVKVGEPDPPTKSLEAVPAGSTVAYKEPVDTKTPGEKNAV VVTYPDKSTDEVPVKVTVDPRDPAEKNDP
TTVPQGTPI SDEEITGLVKIPEGSNGVPKVGDRPNTDVPDGYKVTVEVTYPDGTQDFTVAVTVHVTPKPVPDKDKYD
PTGKSQQVNGKGNLKPATGESATPFFNVAALTISSVGLLSVSKKKED

SeqID 247

MQILEDYDGRALPKLETDRILRQRTVGDVPAMFDYVCLLEEVAYPAGLSPIASLEDEYDYFENRYQNLAKALPSG
YGITVKGSDRIIGSCAFNHRREDDVFEIGYLLHPDYWGHGYMTEAVAALIEVGFTLLNLHKIEIRCYDYNKQSQRVA
EKLGFTEATIRDRKDNQGNRCVNLIIYGLLRSEWE

SeqID 248

MSKELSPKYNPAEVEEGRYQTWLDQDVFKPSGDTEAKPYSIVIPPPNVTGKLHLGHAWDTTLQDIIIRQKRMQGFDT
LWLPGMDHAGIATQAKVEERLREQGISRYDLGREKFLDKVWEWKDEYAATIKSQWGMGLSVSDYSRERFTLDEGLSK
AVRKVFVDLYNKGWIYRGEFIINWDPAARTALSDIEVIHKDVEGAFYHMNYMLEDGSRALAVATTRPETMFGDVAVA
VNPEDPRYKDLIGQNVILPIINKPIPIIADHADPEFGTGVVKITPAHDPNDFAVGQRHNLQVNVNMDDGTMNELA
DEFNGMDRFEARKAVVAKLESGLNLVKIEKMTSHVGHSERTGVVPEPRLSTQWFKMDQLAKNAIANQDTEKVEFY
PPRFNDTFMSWMENVHDWVISRQLWVGHIQIPAWYNVNGEMYVGEDAPEGDGWTQDEEDVLDTWFSALWPFSTMGWPD
TEAADFKRYFPSTLTVTGYDIIFFVWSRMIFQSLEFTGRQPFNSVLHGLIRDEEGRKMSKSLGNGIDPMDVIEKYG
ADALRWFLSNGSAPQDVRFSYEKMDASWNFINKIWNISRYILMNEGLTLDQARENVEKVVNSQVGNVTDRLWILHN
LNETVGKVTFESFDKFEFGVAGHILYNFIWEEFANVVELTKEVLYSDNEDEKVVTRSVLLYTLTDQILRLHPIMPV
TEEIFGQYAEBSIVLASYPQVNATFENQTAHKGVWESLKDILRSVRNSRAEVNAPSKPITILVKTSDSELESFFKDN
SNYIKRFTNPETLEISSAITAPELAMTSIITGAEIFLPLADLLNVEEELARLEKELAKWQKELNMVGKLSNERFVA
NAKPEVVQKEKDKQTDYQTKYDATIARIEEMKKNND

SeqID 249

MVEPIISIQGLHKSFGKNEVLKGDIDLDIHQGEVVVIIGPSGSGKSTFLRTMNLLEVPTKGTVTTFEGIDITDKNDIF
KMREKMGVMVFQQFNLFNMTVLENITLSPIKTKGLSKLDAQTKAYELLEKVGLEKANAYPASLSGGQQORIAIARG
LAMNPDVLLFDEPTSLADPEMVGELTVMQDLAKSGMTMVIVTHEMGFAREVADRVI FMDAGIIVEQGTPEVFECT
KEIRTRDFLSKVL

SeqID 250

MNYKEIYQEWLENDLSLGDIDKSDLEAIKGDESEIQDRFYKTLFEGTAGLRGKLGAGTNRMNTYMGKAAQALANTII
DHGPEAIARGIAVSVDVRYQSKFAELTCSIMAANGIKSYIYKIRPTMCSYAIRALGCVSGVMVTASHNPQAYNG
YKAYWKEGSQLDDIADQIANHMDAITDYQQIRQIPFEEALASGLASYIDESIEEAYKKEVLGLTINDTNIDKSVRV
VYTPPLNGVGNLPVREVLRRRGFFENVYVVPQEMPDPDFTTVGYPNPEVPKAFAYSESLSGKSVADILLATDPDCDRV
ALEVKDSKGEYIFLNGNKIGALLSYIIFSQRALGNLPHHPVLKSI VTGDLKSVIADKYNIEVTETLTGFKNICGK
ANEYDLSKDKTYLFGYBESIGFCYGTFFVRDKDAVSASMMVVENTAYYKERGQTLDDVLQTIYDEFEGYNNRQFSLEL
EGAEQGERISRIMEDFRQDPILQVGMRLENSIDFKDGYKDFPKQCNCLKYFFNEGSWYALRPSGTEPKIKCYLYTIG
CTEADSLSKLNAIESACRAKMNSTK

SeqID 251

MYREITAVEHDRFVSESNOQTNLLQSSNWPVKVKNWGSQLLGFFDGETQIASASILIKSLPLGFSMLYIPRGPIMDYS
NLDIVTKVLKDLKAFGKKQORALFIKCDPLIYLMVNNAKDFENSPDEKEGLAIDHLQORAGADWTGRTTDLAHTIQPR
FQANLYANQFGLDKMSKTRQAIARTSKNKGVDIQFGSHELLEDFAELMKKTEDRKGINLRGIDYQKLLDTPNNNSY
ITMASLDVAKRLEKIEKECQIAQSERIKSLELNREKKVKQHQGTIDRLNKEIDFLKEAQKAYDRDIIPLAATLTLEF
GNTSENIYAGMDDYFKSYSAPIYTWFTETAQRAFERGNIWQNMGGIENDLSGGLYHFKSKFEP IIEFIFGEFNI PVNR
LLYKASNYVYALRKKRNS

SeqID 252

MACTTILVGKKASYDGMTIARTEDSVNGDFTPKKLKVMTSKDQPRHYKSVLSNFEVDLPDNPPLPYTSVPDALGKDG
IWGEAGINSKNVAMSATETITTSNRVLGADPLVSDGIGEEDILTTLVLPYIQSAREGVERLGAILEKYGTYESNGIAF
SDTEEIWWLETIGGHHWARRVPDDVYVTNPNQLGIDHFEFNCCDDYMCSSDLKEFIEQYHLDLTYSNEHFNPRYAF
GSQRDKDRHYNTPRSWAMQRFNLPETEQDPRSLFIPWCQKPYRKITVEDIKYVLSHDYQDSVYDPYGPBGDAVSRRR
FRSVGINRTSQTSLQLRPNKSLETTGVQWLSYGSMPFATMVPLFTQVETVPNYFSNTTKDASTDNFYWTNRLLIAAL
ADPHFYQHEADIESYIERTMAQGHANGVDREVAENKEIDFQKQNEMSDYIQKESQELNRLIFDASNLMTRNRS
MGD

SeqID 253

MRKKFLLLLMSFVAMFAAWQLVQVKQVWADSKLKVVTTFFYPVYEFTKNVVGDKADVSMLIKAGTEPHDFEPSTKNIAA
IQDSNAFVYMDNMTWAPKVAKS VKSKVTTIKGTGDMLLTKGVEEEGEEHGHGHEGHHHELDPHVWLSPERAIS
VVENIRNKFVKAYPKDAASFNKNADAYIAKLKELDKYKNGLSNAKQKS FVTQHAAGYMA LDYGLNQVP IAGLTPD
AEPSSKRLGELAKYIKKYNINYIYFEENASNKVAKT LADEVGVKTAVLSPLEGLSKKEMAAGEDYFSVMRRNLKVLK
KT TDVAGKEVAPEEDKTKTVETGYFKTKDVKDRKLT DYSGNWQSVYPLLQDGTLDPVWDYKAKSKKDMTAAEYKYY
TAGYKTDVESIKIDGKKHQMTFVRNGKSQFTTYKYAGYKILTYKKGNRGVRYLFEAKEKDAGQFYIQFSDHGKIPN
KAEHFHIFWGSSESQEKLFEEEMENWPTYFPAKMSGREVAQDLMSH

SeqID 254

MKLSKLLFSAAVLTMVAGSTVEPVAQFATGMSIVRAAEVSQERPAKTTVNIYKLOADSYKSEITSNGGIENKDG
ISNYAKLGDNVKGLQGVQFKRYKVKTDISVDELKLLTTEAADA KVGTTILEEGLVSLPQKTNAQGLVVDALDSKSNVR
YLYVEDLKNPSNITKAYAVPFVLELFPVANSTGTGFLSEINIYKPNVVTDEPKTDKDVKKLGQDDAGYTI GEEFKWF
LKSTIPANLGDYKFEITDKFADGLTYKSVGKIKIGSKTLNRDEHYTIDEPTVDNQNTLKITFKPEKFKETABLKG
MTLVKNQDALDKATANTDDAAFLFIPVASTINEKAVLGKAIENTFELQYDHTPDKADNPKNPSNPPRKPEVHTGGKRF
VKDSTETQTLGGAEFDLLASDGTAVKWT DALIKANTKNYIAGEAVTGQPIKLSHTDGT FEIKGLAYAVDANAEG
TAVTYKLETKAPEGYVIPDKELIEFTVSQTSYNTKPTDITVDSADATPDTIKNNKRPSIPNTGGIGTAIFVAIGAAV
MAFAVKGMKRRTKDN

SeqID 255

MKKRQKIWRGLSVTLLILSQIPFGILVQGETQDTNQALGKVIVKKTGD NATPLGKATFVLKNDNDKSETSHETVEGS
GEATFENIKPGDYTLREETAPIGYKKTDKTWKVADNGATII EGMDADKAERKEVLNAQYPKSAIYEDTKENYPL
VNVEGSKVGEQYKALNPINGKDGRREIAEGWLSKKITGVNDLDKNKYKIELTVEGKTTVETKELNQPLDVVLLDNS
NSMNNERANNSQRALKAGRAVEKLIDKITSNKNRVALVTYASTIFDGTEATVSKGVADQNGKALND SVSWDYHKT
FTATTHNYSYLNLTNDANEVNILKSRI PKAEHINGDR TLYQFGATFTQKALMKANEI LETQSSNARKKLI FHVTDG
VPTMSYAINFNPIYSTSYQNQFNSFLNKIPDRSGILQEDFIINGDDYQIVKGDGESFKLFS DRKVPVTGGTQAAAYR
VPQNQSVMSNEGYVINSYIYLYWRDYNWVYFPDPKTKKVSATKQIKTHGEPTTLYFNGNIRPKGYDIFTVGI
GDPGATPLEAEKFMQSISSTENYTNVDDTNKIYDELNKYFKTIVEEKHSIVDGNVTDPMGEMIEFQLKNGQSFTHD
DYVLVGNDSQLKNGVALGGPNSDGGILKDVTVTYDKTSQTIKINHLNLGSGQKVVLTYDVLKDNYSINKFYNTNN
RTTILSPKSEKEPNTIRDFPIPKIRDVREFFVL TISNQKKMGEVEFIKVNKDKHSESLGAKPQLQIEKDFSGYKQFV
PEGSDVTTKNDGKIYFKALQDGNKLYEISSPDGYIEVKT KPVVTF TIQNGEVTNLKADPNANKNQIGYLEGNGKHL
ITNTPKRPPGVFPKTTGGIGTIVYILVGSTFMILTICSFRRKQL

SeqID 256

GAKKAGWTEYARMLLEVREQVDHVMIPKINQDLPIYAGPEEDNLQRGVGHLEGISLPIGGASTHAVLSGQRMGAARL
FADLDKMKKGDYFYVTNLKETLAYQVDRIMVIEPSQLDAVSIEEDKDYVTLTCTPYMGSLSTVMGDLSLTTRENQL
GSLSFWMFKAMRILLKFLKLRKPKACRLMSLISLVASNLALERDS

SeqID 257

MSDVVEKQTAKSFIMNVNLGLALGTIVLIPGAILGELMKALLPMWSGFATLIAATAVATSMGLVIGIMVGLNFKF
NPIQSASLGLAVMFAGGAATFLKGAIMLKGTGDIINMGITAALGVLLIQFLSDKTKSFTLIVIPTVTLTLLVGGVGHV
LLPYVKMITTMIGOGIASLLGLQPVLMSSILIAMIFCFLIVSPITTVGIALAISLSGIGSGAANLIGICAASFGLCMAG
WSVNSKGTALAHVLGSPKISMANVLAKPKIMLPMISSAAILGILGALFNIQGT PASAGFGISGLIGPINALNLAKGG
WSVMNMLLIIFVAAPILNFIIFYLFIKVLKIIDPMDYKLDI

SeqID 258

MARPLVEQTDARLLHLILEREYPVGAKL PNEYELAEDLDVGRSTIREAVRSIATRNILEVRRQSGTYISSKKGVSSED
PLGFSLIKDTDRITSDLFELRLILLEPRIAELVAYRITDDQLQLEKLVGDIEDAVHAGDPKHLLLDVEFHSMLAKYS
GNIAMDSLPLVINQSIHLINANYTNRMKSDSLEAHREIIKAIREKNPVAHADAMLHMSVRRSALKA

SeqID 259

MIKKNKVFLGVLLVLVVLGGGVLFYQSQFQKTTNQALAIAYKDAKVAKKDVIHQKIDKEFENFRGSYEIEFNTKSA
EYSYHVDAKTGQILERDMNNGFSKSTSQSSSSSSQKSHKISQEEAKKIAFKDANIEESEVSNLKIKEEIEENGKSVY
DIDFVDLKNKNEVDYQIDAETGKIIERSRDMND

SeqID 260

LNRRKKRYRLTVKKQNASIPRRNLNLLFFIIVLLFTVLILRLLEQMIGQSSFYMKKLTALTSTYTVKESKARGQIFDAKG
VVLVENDERPTVAFSRGNMISSQSIKELANKLSHYITL TEVASSDRAKRDYLLADKANYKKVVESLPDSKRYDKFGN
HLAESTVYANAVAAVPSAINYSEDELKVVALFNQMNATPTFGSVKLSTGELSDDQIKKLDADKKELLGISVTSNWH
RRKKGTSLSLILGTISTEKAGLPREEVKKYLKKGYSLNDRVGTSYLEKQYEDDLQGIQIRKVVVNKKGKVVSNDIT
QEGKSGRNKLKLTIDLNYQNKVESILKQYYGSELSSGRASFSEGMVAIAIEPSTGKVLAMAGLKNHGNLVDDSLGTI
AKNFTPGSVVKGATLSSGWENKVLRGNEVLVDQELANIRSWFTRGLTPISAAQALEYSSNTYMVQVALRLMGQDYNT
GDALTRDGYQEAMAKLRKTYGEYGLGVSTGLDLPESEGYVPGKYSGLTTLMESFGQYDAYTPMQLGQYISTIANNGN
RLAPHVVSIDIYEGNDSNKFAQLVRSITPKTLNKIAISDQELAIQEGFYNNVNSGSGYATGTSMRGNVTTISGKTGT
AETFAKNVNGQTVSTYNLNAIAYDTNRKIAVAVMYPHVTTDTTKSHQLVARDMIDQYISQFTGQ

SeqID 261

MTVFPHKFLWGGAVAANQVEGAFRTDGKGLSVQDVL PNGGLGDF TAKPTPDNLKLEAIDFYHNYKNDIKLFAEMGFK
VFRTSIAWSRIFPNGDDSAPEAGLQFYDNLFDLLEKYNIEPLVTL SHYETPLHLAKTYNGWADRRLIAFFEKFAQT
VMERYKDKVKYWLTFNEVNSILHMPFTSGAIMTDSQLSPQELYQAIHHELVASARVTKLGRSINPNFKIGCMILAM
PAYPMTSDPRDVLAAQFQEQHNLLFSDIHVRGKYPTYIQSYFKNNGIKIKFEEGDEEVLQNTVDFLSFSYMSVTQ
AYDFENYQSGQGNILGGLTNPHLTTSEWGWQIDPIGLRLVLNQYYERYQIPLFIVENGLGAKDQLIETLDGDTVED
DYRIDYMNQHLVQAKAIEDGVEIMGYTSWGCIDCVSMSTAQLSKRYGLIYVDRNDDGTGSLQRYKKKSFGWYQKVI
KTNGQSLFEHHR

SeqID 262

MATFQIKBKMFSLGGKFTITDQTLGPCYHVBGSLFPLPKTFKVFDDEGHLISQIEKKVLSFLPKFNVTLANGNHFTI
KKDFSFLKPHYTIEDLDMEVKGNFWDIDFQLLKDQNVIANISQQWFRMTSTYQVEVYNETYNDLTI SLVIAIDYVKE
LEKNASN

SeqID 263

MKKITTLILASSLLLVATTSVKADDNFEMPTRYVKMSEKSKAFYQRLQEKQKAHTTVKTFNNSEIRHQLPLKQEA
RNDIYNLGLISQESKGFIRIDNAYSLENVSDIVNEAQALYKRYNDFEKIKSTRDKVQVLLASHQDNTDLKNFYA
ELDDMYEHVYLNESRVEAINRNIQYN

SeqID 264

MKLKFFEDLLAKLEYRPIQVFMRFHQAEMDLAIAVAYYLLVTAFLPLLVIAANIFPYFHINVSLLSLMQKNLPK
NIYEPASRLAVDAFSKPSGTGILGFASLTAFWTMSKSLTSLQKAINKAYGVDQHRDFVISRLVGVTGLIILFLTLTFV
LIFSTFSKPVQLIIVNMYDLGDTLAWLLNLAQPVTLTIFLIGIGILYFILPNARIRKVRYPVPGTLFSTFVIGFFS
NLISQYVLNRVEKMVDIKTFGSVVFILMLWFI FLAHIMILGAILNASVQELATGKIESRRGDIMSLIQKSKEK

SeqID 265

MKLLYTDINHDMTEILVNQAAHAAEAGWRIFYIAPNSLSFEKERAVLENLPQEASFAITITRFAQLARYFTLNQPNQ
KESLNDIGLAMI FYRALASFEDGQLKVFGRLLKQDASFISQLVDLYKELQTANLSILDLYLHSPEKFEDLLAIFLVV
SDLLREGEYDNQSKIAFFTEQVRSGLDVLKNTILIVDGFTFRFSAEEELIKSLSSRCQEIIGAYASQKAYKANF
TNGNIYSAGVDFLRYLATTFTQKPEFILSKWESKSGFEMISKNI EGKHDFTNSSHILDDTAKDCITIWECINQKDEV
EHVARAIRQKLYQGYRYKDILVLLGDVDSYKLQLSKIFEQYDIPYYFGKAETMAAHPLVHFMDLSRIKRYRFRAED
VLNLFKTKGIYGEISQDDLDFEAYISYADIKGPKKFFTD FVVGAKKFDLGRLLNTIRQSLAPLESFVKTKKQDGIKT

LNQFMFFLTQVGLSDNLSRLVQMSSENEQEKHQEVWKTFTDILEQFQTI FGQEBKLNLD EFLSLNLSGMMQAEYRMVP
 ATVDVVTVKSYDLVEPHSNQFVYALGMTQSHFPKIAQNKSLISDIERQLINDANDTDGHFDIMTRENKKNHFAALS
 LFNAKQALVLTIPQLLNESEDQMSPYLIELRDIGVFPFNHKGQSLKEEADNIGNYKALLSRVVDLYRSAIDKEMTK
 EEQTFWSVAVRYLRRQLTSKGIEPIITDSLDTVTVSSDVMTRRFPEDDPLKLSALTTFFYNNQYKYFLQYVLGLE
 EQDSIHPDMRHHGTYLHRVFBILMKNQGI ESFEKLN SAINKTNOEDVFKSLYSEDAESRYSL EILEDIARATATIL
 RQDSQMTVESEERFELMIDNTIKINGIIDRIDRLSDGSLGVVDYKSSAQKFDIQKFYNGLSPLVITYIDAI SRDKE
 VEQKPPIFGAMYLHMQEPKQDLSKIKNLDLVTKNHQALTYKGLFSEAEKEFLANGKYHLKDSLYSEAEIAILQAHN
 QLLYKKASETIKSGKFLINPYTEDAKTVGDQFKSITGFEADRHMARARALYKLP AKEKRQGFLTLMQQEEENDL

SeqID 266

MSETKVMALREAINVAMSEEMRKDEKVFLMGEDVG VYGGDFGTSVGMLEEFGA KRVRDTPISEAAIAGSAIGAQTG
 LRPIVDLTFMDFVTIAMDAIVNQGAKTNYMFGGGLSTPVTFRVASGSGIGSAAQHSQSLEAWLTHIPGLKV VAPGTV
 NESKALLKSSILDNNPVI FLEPKALYGKKEEVMNDPDFYIPLGKGDIKREGTDLTIVSYGRMLERVMQAAEEVAEEG
 INVEVVDPRTLIPLDKELIIDSVKKTGKLILVNDAYKTGGFTGELATMVARESEAFDYLDHPIVRLASEDVPVPYSRV
 LEQGILPDVAKIKDAIYKVVNKGK

SeqID 267

MAFDVIMPKLGVDMQEGEILEWKKNEGDTVNEGDLLEIMSDKTNMBIEAEDTGVL LKIVHQAGDVVPVTEVIAYIG
 BEGEEVGTSSPSADATITAEDGQSVSGPAAPSQETVAAATPKEELAADEYDIVVVG GGPAGYAAIRGAQLGGKIAI
 VEKTEFGGTCNLNVGCIPTKTYLKNAEILDGLKVAAGRGINLASTNYAIDMDKTVAFKNSVVKTLTG GVRGLLKANKV
 EIFNGLGQVNPDKSVVIGDKVIKGRNVVLATGSKVSRINIPGIESPLVLTSDDILDLREIPKSLAVMGGGVVGIELG
 LVWASYGVDVTVIEMADRIIPAMDKEVSLELOKILAKKGKIKTSVGVS EIVEANNQLTLKLNNGBEVVADKALLSI
 GRVPQMNGLLENLEPELEMERGRIKVNAYQETSIPGIYAPGDVNGTRMLAHAA YRMGEVAAENALGGNKRKAHLDFTP
 AAVYTHPEVAMVGMTEEQAREQYGDILVGKNSFTGNGRAIASNEAHGFVKVIAEPKYKEILGVHII GPAAAE LINEA
 STIMENELTVYDVAQSIHGHTFSEVMYEAFLDVLGEAIHNPPKRK

SeqID 268

MGKYFGTDGVRGEANVELTPELAFKLGRFGGYVLSQHETDRPRVFVARDTRISGEMLESALIAGLLSVGIEVYKLG V
 LATPGVSYLV RTEKASAGVMISASHNPALDNGIKFFGSDGFKLDDRELEIEALLD AKEDTLPRPSAQGLGTLVDYP
 EGLRKYEFMBESTGIDLEGMKVALDTANGAATASARNIFLDLNADISVIGDQPDGLNINDGVGSTHPEQLQSLVREN
 GSDIGLAFDGDSDRLIAVDENGEIVDGDKIMFIIGKYLSDKGQLAONTIVTTVM SNLGFHKALDREGIHKAITAVGD
 RYVVEEMRKSGYNLGGEQSGHVIIMDYNTTGDGQLTAIQLTKVMKETGKKLSELASEVTIYPQKLVNIRVENNMKDK
 AMEVPAAIEIIAKMEEEMDGNRILVRPSGTEPLLVRMAEAPTNEAVDYYVDTIADVVRTEIGLD

SeqID 269

MKGQKIIALAGLVLSCHFALTACHTQEHNKSHHIKTKQVAKKKANKKKVSVKESHKKRKG VAGVDFPTDDGFLLT KD
 SKILSHPD SGIVVAHGNHSHFI FYSDLKGSKFSYLI PNANAKTNKKQAVRNFKAGAVAVNTLNDGYVFN PADIVSED
 ANGYVVRHGDHFIYPKASLSQQKQVQASRAVSR LGNQNNSHYRVNSSKIAGLHHPTSDGFLFNGQGIKGTPTTGIL
 VEHNHLLHFISFADLRKGGWGS IADRYQPQKKVDSKKQSPSSKKPRTENTLPKD IKDKLAYLARELHLDISRI RVLK
 TLNGEIGFEYPHDDHTHVIMAKDIDLSKPIPNPHHDDDEHHKHGHHHDESDHKHEEHEHTSKNLSDEDDQKKLIYLA E
 KLGLNPNQIEVLTS EDGSIIFKYPHDDHSHTIASKDIEIGKPIPDGHHDHSHAKDKVGMATLQKIGFDD EIIQDILH
 ADAPTFFPSNETNPEKMRQWLATVTKINIGQRTNPFQRFGLSLMPNIEVLGIGFTPIINDMTPVLQFKKLQ LWMNTNT
 GITDYSFLDKMPLLEGLDISQNGIKDLSFLTKYKQLSLIAAANNGITSLKPLAELPNLQFLVL SHNNISDLTPLSNL
 TKLOELHLDHNNVNKLSALS GKKDLKVLDSLNNKSADLSTLKTTSLETLLNETNTSNLSFLKQNP KVSNL TINNAK
 LASLDGIEESDEIVKVEAGNQIKSLVLKNKQGS LKFLNVTNNQLTSLEGVNNTSLETLSVSKNKLES LDIKTPNK
 TVTNLDFSHNNVPTSQ LKLNEKNIP EAVAKNFP AVVEGSMVNGSLAEKAAMASKEDKQVSDNTNHQKNTEKSAQAN
 ADSKKENPKTHDEHHDHEETDHAHVGH HHH

SeqID 270

MNKRVKIVATLGP AVEFRGGKFGESGYWGESLDVEASA EKIAQLIKEGANVFRFNF SHGDHAEQ GARMATVRKAEE
 IAGQKVGFLLDTKGPEIRTEL FEDGSDFSYTTGT KL RVATKQGIKSTPEVIALNVAGGLDIFDDVEVGKQILVDDG
 KLGLTVFAKDKDTREFEVV VENDGLIGKQGVNIPYTKIPF PALAERDNADIRFGLEQGLNFIAISFVRTAKDVNEV
 RAICBETGNHGVKLF AKIENQQGIDNIDEIIRAADGIMIARGDMGIEVPFEMVPVYQKMIITKVNAAGKAVITATNM
 LETMTDKPRATRSEVSDVFNAVIDGTDATMLSGESANGKYPVESVRTMATIDKNAQ TLLNEYGRLDSSAFPRNNKTD
 VIASAVKDATHSMDIKLVVTITETGNTARAI SKFRPDADILAVTFDEKVQ RSLMINWGVIPVLADKPASTDDMF EVA
 ERVALEAGLVESGDNIVIVAGVPVGTG GTNTMRVRTK

SeqID 271

MTATKQHKKVILVGDGAVGSSYAFALVNQGI AQELGII EIPALFDKAVGDAEDLSHALAFTSPKKIYAATYADCADA
 DLVVITAGAPQKPGETRDLVLGKNLAINKSIVTQVVE SGFNGIFLVAANPVDVLTYSTWKFSGF PKERVIGSGTSLD
 SARFRQALADKIGVDARSVHAYIMGEHGDSEFAVWSHANVAGVQLEQWLQENRDIDEQGLVDLFI SVRDAAYS IINK
 KGATYYGIAVALARITKAILDDENAVLPLSVYQEGQYGDVKDVF IGQPAIVGAHGIVRPVNIPLNDAELQKMQASAE
 QLKDIIDEAWKNPEFQEQASKN

SeqID 272

MODKNLVDVNLTSSEMTSFDIDYAMSVIVARALPDVRDGLKPVHRRILYGMNELGVTPDKPHKKSARITGDVMGKYHP
HGDSSIIYAMVRMAQWWSYRHLMLVDGHGNFGSMDGDGAAAQRYTEARMSKIALEMLRDINKNTVDQDNYDGSEREP
LVLPARFPNLLVNGATGIAVGMATNIPPHNLGESIDAVKLVMDNPDVTTRELMEVIPGPDFPTGALVMGRSGIHRAY
ETGKGSIVLRSRTEIETTSNGKERIVVTEFFPYGVNKTKVHEHIVRLAQEKRIEGITAVRDESSREGVRFVIEVRRDA
SANVILNNLFLKLTSLQTNFSFNMLAIEKGVPKILSLRQIIDNYIEHQKEVIVRRTQFDKAKAEARAHILEGLLVALD
HLDEVITTIIRNSETDTIAQAEMLSRFELSERQSQAILDMLRLRLTGLERDKIQSEYNDLLALADLADILAKPERVV
TIIKEEMDEVKRKYADARRTELMIGEVLSELEDEDLIEEDVLITLSNKGYYIKRLAQDEFRAQKRGGRGIQGTGVNND
DFVRELSTSTHDTVLFFTNLGRVYRLKAYEIPYGRGTAKGLPIVNLKLDEGETIQTIIINARKEDVANKYFFFTTQ
QGIVKRTSVSEFSNIRQNGLRINLKENDELINVLIDENEDVIIIGTRTGYSVRFKVNAVRNMGRATATGVRGVNLRE
GDKVVGASRIVNGQEVLIITEKGYGKRTEASEYPTKGRGGKGIKTANITAKNGPLARLVTINGNEDIMVITDTGVII
RTNVANISQGTGRSTMGVKVMRLDQBAKIVTVALVEQEIEDKSNIEDTKE

SeqID 273

MTIFDERELKERFTHENRVSFYEFVAKYDAQMVPVMKAKGYRCIHSMERTVVVTFGEFTIRRRRWQKGEHWVVPVDE
KLGLKKNVRYSLFEMYQIASLATMMPYEKVIKVVQMMYCVITKPTVVKAVKISRELLKEKEAYRFFDEDIPVDKEP
VDMIYLEGDMVMVKAEEGLDNRNVDSLHFFVHTGSQKVGSNRFLVQNKKEFVSLDNRQTRQKILDYLYNHFYIAPN
TLLITNSDGGHGYTPYVFKETAKALKVKQHEHFWDYHVEKIKSFFKLYPVELMTGAFQSIKQHDKEKLRTVLDTT
EALILMEEMEGFNQFKRKLNNFQYTKSAELRGFSRAGIGVMESQHRKITYRMKKRGMWWTIQGAETMSQLIVLSY
EGQLRDLFFGSWREDYQKYQELENLASGKIKHEQNKINKRYDLQTLGRLRYGRHNL

SeqID 274

MAYLSKLSDLDPSLMDADSEQIYIPKVLFEHNDFKGLTYKEILYSFLLNRLREPLDFIQKGYDDNEDTYVHFKVED
LCELLNQSKTTVISLKKRLAQYGLIEEVKAGSHQPNRIYLTDKLVPIKG

SeqID 275

MTDNRFQALKENFEKGSFKRRVPTSRPIAAQKAPESYNKKGRYPFSLHQDVRYDKLEALVAYHGAKSASDYLERLIV
QEWEKMQRKLNKEK

SeqID 276

MFSWLEALYYTLIQLAKVNRILNALFLVSUVGYLCYQGIKLVKRTIRNFFQLMKGFIGDRENIKKCIKNKEALVHSW
KHRQDIDWKSTGDKSKQLWNLMKRLATVAPSFLFLLGNVLFRLIYQLPFVKQDRKRFDKEMKPLLYFKNYRSFVF
MGIGFSFIAFILNTYFVTVLRAAIRFLYFSIMTLRDNSSQVVSFNVDLSLLIQNLFNARVFIAPILAVPIFLIGLVVA
WRSAAVNFEQYRDYNHNEEGDDRFATVKEIHQQYKKVPNKTTETYPGEGGVPLHETRKNLTGLTLKSQMLWQNRTPS
RYLTNAERILGLLSTPSGDYIYDDSTTNLITMGITRSKGGEAHIAPIIDINSRAEIQPSLIADPKGEHYQSSYKTM
RRRGYDVNVLSFQNMWMSYNPLALALAAAKKGYEMTQTRVNAVAEAIYRKTTPGSGNGNAYWEDTSSISLFNAI
AMALMDRANETVRNGETDAWDTVTVRNIAKFLTDLGSEEVFVNDGFEIIVENPDKNQVKKKSKITVYFDNLRKINQE
QFSKFRDMADLNFRSSDFASEETKGNVFSMMSGINLFLQDNIAKLTSKNSIDLESVGFPRRLSIKFRSSSNVAMRN
EYTHKTAKVTITSQAVWGKTTKQVIHVDAAATALIDGEGYLTIVIEPQLPDQFLVTIDFNHNNNGSAIRHKTFFQSA
EKVYKKRGNVITLDDYTKKPVLDHIKVTVLNKQDDNLLQKEDIDLIYSDNPKVIYLVTPPNRTEYNSIVSLFLDQLF
NANYELALSNGRKCVRNIRLHILDEFNTNIPAI PHMDTKISIGLGONILYLLWIQNLKQLVSEYGENTAETIRENC SLK
VYIKSTAPATNEYFSKELGTRTITRRRRSSNILDEANPNVSIENPRQELLTPTQLSKLQGEAEVILRGVKGRDNAGR
KITTDPIFLHEKTSLPYRMFLQEEFDQSMALADIPVESGHRDLDLQDIAGVAQSTFNKIIDWRMALTDMMRTNGKI
PQLASRKQTIKALSQSQTSPADLTQAVIAEVFDEEDDDDLFFVDDVM

SeqID 277

MNSNTKGHGFRRKSKAYGLVCAIALAGAFTLATSQVSADQVTTQATTQTVTONQAEVTSTQLDKAVATAKKAHAV
TTTPAVNHATTTTDAQADLANQTQAVKDVTAQAQANTQAIKDATAENAKIDAENKARAERVAKENKEGQAAVDARNKA
GQAAVDARNKAKQQAQDDQKAKIDAENKAESQVSQNLNAQNKAIDAENKDAQAKANATNAQLQKDYQAKLAEIKSV
EAYNAGVRQRNKDAQAKADATNAQLQKDYQAKLALYNQALKAKABADKQSINNVAFDIKAQAKGVDNAEYGNISIMTA
KTKPDGSFEFNHDMIDGVKTIGYGKLTGKVNHHYVANKDGSVTAFAVDSVTLYKYEYRNVAQNAAVNQNVFRVLTKD
GRPIFEKAHNGNKTFAETLNLKTLQNLKYELKPHASSGNVEVFKIHDDWVHDTHGSALVSYVNNNDVAVPNVPIPERP
TPPKPVKVTPEAEKPVPEKPEKLVPTPLKTYTPVKFIPREYKPEPITPETFTPEKFTPAQPKVPHVSIPEKINY
SVSVHPVLVPAANPSKAVIDEAGQSVNGKTVLPNATLDYVAKONFSQYKGIKASAEAIKAGFAVDQPNELAEITV
KSIKASNGDDVSSLLEMRHVLKSDTLDQKLQSLIKEAGISPVGEFYMWTAKDPQAFYKAYVQKGLDITYNLSFKIKA
NFTKGQIKNGVAQIDFGNGYTGNIIVNDVTVPEVHKDILDKEDGKSINNSTVKLGDEVITYKLEGWVVPANRGYDLFE
YKFVDQLQHTHDLYLRDKVVAKVVDVTLKDGTVIKKGTNLGEYETETVYNKTTGHYELAFKKEFLAKVSRESEFGADDF
IVVKRIKAGDVYNTADLYVNGYKVKSEAVVTHTEKSKPVEPQKATPKAPAKGLPSTGEASMTPLTAIGAILLSALG
LAGFKKRQK

SeqID 278

MKQIKIITGLTVATLSAVVGNVYAEDITPTAPVNEPQVSSETAKTPQVTESQVNSAKVTADQAI SDVNNQIIVVDEA
QKQKQSQQNVLKATSTVTEAEKVAAEATPEVVKEAIKAVTEAKEAVTDAEANNVDAQKTEQKANQEVQSQAQTVDE
NVKVVDKESVQKAEGVVTTAQBAIDSKTANTNASEAEKAVTEKQTKLETAETNLTEAQKQDAKIAEEKRLAEQEV
VNKQLAVTDTQTLKLLKLVTEINNEKVSTSLNQAYFNQRDGSWAGYGYNYTFAATGCVPSSSLAMVFTELARROITPT
EIANYLWNNNSNEFNKNYGGTSGKGLVQATKHFGFVPTHLASQSAIVEALQAGHHVLAQVQDKFSPWGINYSHEIVL

RGYSNGNTYVYDPYNRANIGWYPVANLWNEQSRDAIDTSSVGVPPFKITTTQKMAQLEAQKAQVQSSLNTAKNQLAKT
QDVLRTLEATPLKTPPEAQAKLNQAKEALALAQADYTKAQEAVKLASQDLAVKEETLKNQAADLLTKQTALKDAQTVL
VASQVKLADLKATLATVENNVKKAQATLTDAKAIVGQKQAKLLALQNA PKTLADAQAKLVTAKNDLANKMAILDEAV
AKLKSLOQAVQAEQKQYHVVFAYKAVRDAKEQAKLAESYNHIIARGGEAIPVVDKTDKITGYVDGSKAVANEVTL
ALTSNGAPLESFVNKENQNVTKSSQALPHTGEAGLSILSVLGVGLISTLGLTSLKKRRPH

SeqID 279

VRLTHVSLWMPSKRSWPLKLQLLRKGVIELEDELKTPYLDQYTDNLTAKVTKKSDDYQVYGRNKEVQSVIISLLRRT
KNNPILVGEAGVGKSAIVEGITLAILRGQVPEPLKGLTVRSLESLMSSEDEGFIKFKKIEEMVATRGHNLFFV
DEFHTIIGAGSQNGQALDAGNVIKPVLARGDIQLIGATTLDDEFHEYIETDRALERMMQPMVEEPTISQAITIEQA
KVIYEKPHGIQISSDAVHQAIRLSVRYLTDRFLPDKAFDLIDEAATIASVEGSKSVTEKDIAQVLKDKTGIPVTTIL
RGDQERLEGFKERLMNRVKQGEDAIEAVVDAVTIAQAGLQNEKRPLASFLFLGPTGVGKTELAKATAEALFDDEAM
IRFDMSEYKQKEDVTKLINRATRIKQOLTEGVKQKPYCVLLLDIEKAHSEVMDLFLQVLDDGRITDSSGRLLISFK
NTIVIMTTNIGAKKIINKWELKGNFKDLTDNRDRKQFEKSMOSELQNEFRPEFLNRNENKLI FNLLERDVIEKIAEKN
LSEIADRMKRONLTLSYEPSLIQYLSDVGTDVKNGARPLERLMKRKVLAPISVKSLOLDKSKQGYNVHLWVEGRAPD
GNHRQEQRQIHMEIEGERDNFFS

SeqID 280

MAEENAOQPSLRGKSRREVEFARSRDILDVAHELMELFRDGKNYRWKEHDSMVTIPATNQWYFWSQRQGGDVIAL
VETIKEIGFNQAFYFLNEGTFKEFTVVNQVKEPFSYYLEPEYQLFVEARRYLKENRGLSDDTIDFFYDKGVLAQANA
KVGDMIEPVLVFNLDKNGQVGAALQGLVAAPDKYFGRGYLKQIMKNSQPYNGMHVDIGTPNRLVFAESSIDLMSY
YEIHKDSLSDVRLVSLEGLKTGTIGRHLIQLRAEMERRPLSSSWTDEILAQGLDEAVKQGYFKDGKNSHLLTLAVDN
DVKGKQLIEELKDKSIPVIDATPPKAEGQSKMDWNAYLQETKATFSTEKYQEKIDHLISDVILGDETYLWHDDELV
NLGAGDSIIQAFHHQLEDRRYVINQAEELYVEESSNDGATGYLSIEGHVLDKDGISDYLSDQALTDAEKVAFLETLOT
ELPDIWDEIVNHYDKVFEEVVVKYGLREKHADIIQEQLDLDPLVPEAKEKSLEMNQETNTGGELFNRRNSSFLGED
SPGTAPQPVPEPTAQDPFPTNVRLHFTTDDGNMNSKAFRKNMRTLNLNLYANTMRDSAQWYLSEIADTTMSYVYKTPHEE
GVQVLSVHFGKKNWHLTGVTVPYENWVDSLSEQFIDDIANSGHFKNLKFALGTPDKLKVLLNLLPETIESDTFVFN
DLSSVQKLNLDLSQALNPEDSDILLLFRDEGLHQVPASLMRIKGDLEERLSHIDSGTVLGVYRERNQGLEQVSVNE
EYVKDSGQEMLSILQNKHYEALDSGQEMVQTDGFSADFTKVLDAVYHVGVPDDLARVPEGVLPVWQKYLEVSEEN
QWDLEQMIDYADKNSLLVKDSAPYKEWKEDMIYKNDYHVRQLQFAENWDNGVELPFRTEQLIDYKTFVTGLYEANQAH
HORRQESQLPYTKTEFDIYAPGGQLIKDNVHYAIGDETRPVSQMLGLGYRRLPGYQELAVIDNSILSQLENKELNQE
IASEANEHSLSNQEIPKEDNYPREAFSTPKQDIKKGLAQRVEEIWAEDATKILVSSIPQVQENLSVEGNLVGTPQAD
NRMLYTNLEDFGQDYQLELAVYSPKRVDFLEDVQAPWTLALIRKEKKIGYLAAGSDWAKEFQIEELEHLAAQIGDE
KVPEGLYKQAEVEAFIASHQGNESLQEPITIVAEFPDYTSASAYEISEHAFQKIREYTSQPEDLLEYMDFMKFPQ
LSPRNVALIHEQWRGANAVATYRQWKAMGEALGIKPDVVQTKATYVKNRTGETKEVHVHQLSVKTGEKSKITLFRP
LMVKMIPVLDENGQQLKNDKGNPKYKKLSEASLOEKALVKDGKLPVRQFQERDSKTGQPRFTTYKVFELSQTTLKPG
SYPKAMPNRHFNFNVDKVKTEVLEGLCDYAEKIGVSLMKDDAHVLDNAKGAFYSEEQLILNPNNTPGKTIATTIH
ELAHATLHNPKLKQYKELPKGQKEFEAEMTSYLLSKHFGLDTSEKAIHYMASWTDNLKALEDKQLADSLKRVHQTV
SKMLKQVEKYTNPHQLGRGKEHGLNFPKAPTCKGSSR

SeqID 281

MDVSSSPNITFMLQYTEANPQYVDYTNREEAVKIDEELSLETNRQMIEGLTEDELTRIQAEPETQLNFREYIDYMN
RSYATEEQSKELTAITFQEAQYLQKRLRIDLKNKLESAYQNGSLLWQGVISFDNAFLAEQGLYDVATGQVDQKAICA
VMRDMPTLIQKEGLSDSAFWGNIHLNTDNIHIFGLSEVESNREKIFYQPRGRMEYKGNFSQKTINRFKSGVYHG
LLKEETRSLNLRKEQILANLKADFITSIYQKDKITSSAEKNFLEQAYNHLPLNKKWRYGNSNARDFAVSKFFLDYRLD
SYLNNEGSAAYQEFLKETRDFLQTYEGVYSAEKNKIYEKLKRVGDGQITRTLAESKGYDLEHHLARRVMDLRERLANN
ILRSFREAAPQIQDVQLEKNLESFVLNOKKILEQHPEASVVKSQAWQKLGYFVKAGEQPLEIIRPVYKSYDKHGK
GIGRPEFVSDTVYDISQLTENIQLKSLTLKDLSLFSSNELKELVDAAKLKTNPTEERERELGTYRYALKLSILESSQ
KELQVRQKLLQVQPLASDQPFDFKKQLIAQELQATIALQLTPTYKLSSEDDKALKNRLKQFEDSVALPVSKATPGA
IQLPIRQLWTELGLVHHIQDENILTLKGTSTTKQAYIEELQTHISIFQLKYQINNRRNKQISQLSDEATIKEMRIAN
AKGFSELKRLYDTLQPSDDGQNIQSQAVSKQLQERKVIKKAQLQQTQRSKINTDFMRQLTASLNRSSQASQASKALME
RARSEREEQEERRQAQR

SeqID 282

MKKNKFLVSVIFIIIFVVQPNFQSLKNIFTQNDIASQLNIISSSPEEKNDGLGTAYQTQNEIDLKSKSFDGQHQVIV
VNEKAQFTAELSMMRNGSWEKYDNLDLFLNRVGVAREAMLGKELMPKEARQDISSVKPTGWKNKKITFNGKQDYLYNRS
HLIGFQLSGENANVNLFCTGTRALNANFNDDKSSMVYYENEVANYIKKTNHVRVRYVTPLFKNVELVARGVRIEASQ
IEDETISFDVYIFNGQPGYDIDYLTGSSEKIMITK

SeqID 283

VTKEIKIRSIPEKTWAQLHMISEBYEYPSFNEFMALQORIVENGGLDYDNKFAETLAVIKBQQAQILDQLLKNEI
KLLAYHAKQDIVEELTTDWLRFMDVDVDAALAAERGAGGR

SeqID 284

LLYYFIYLIKVIGNGLKLSLICGLNWLKIVFKGQFYLFSAVFCGLLTYYMPQDIQLFTVRVLELIIMLKVIIDVTH
TALSRDFKRMKTPLFLGVMYVFFLAGNSYIKAHLLTEVMVNHLSIFWLISLFFATLVIVIQPRLFKHYLLKKVIDKE
YLGIRKFTDSLPEINLYKDADEEDADKRMRLINQNVIKHPYQEVVELSFLNREVITAIGYKAVPFEKETERTFIDD
DTIYPIFTVHPFRNLEGKSDFYHILMKLKLRSKAAFTKNGERLLIRDF

SeqID 285

MIRNEFYNLINSEPIGFIDPFTDLGEFDSIQMKFKQPVRNLVNKYSKGPYNLSWQNKIEQMRVLYIKYQKSLKLB
EEQEVHNRVKNKSKKYVHEIVT'TYLLKLGFRFKBIEARVSLFNTLRNRNWKRSYVTTDNPEFYLLKDLQNGYCSFN
SFLPRSMKIN

SeqID 286

MNEIKCPHCGTAFAINESYHQLLEQIRGDAFDKEVSEERLEKERLILGEQAKNQLQEVVVEKDKEIAKQYKVKQFL
IEKDNLLKDNFYQLAEQLNQKDMMLRDLENQIDRLRLEHENSLOEALTKVERERDAIQNLHQEKEKDLALASVKS
DYEVQLKAANEQVEFYKNFKAQOSTKAVGESLEHYAETEFNKVRHLAFPNAYFEKDNLTSSRSGSKGDFIYREKDEND
LEFLSIMFEMKNESDDTIKHKHNEDEFFKELDKDRREKSCEYAVLVTMLEADNDYNTGIVDVSHKYPKMYVIRPQFF
IQLIGILRNAALNTLKYQELALMKEQNIDITHFEEDLDIFKNAFAKNYNSASKNFQKAIDEIDKSIKRMEAVKAAL
TTSENQLRLANNKLDVSVKKLTKRNPMTKAKFDALKD

SeqID 287

MNHFEFLKLLKAGLTNLNINNIINYLKKNSLTSLSVRNMAVSKCKNPTFFIENYKQLDLKKLRQEFKKFPVLSILD
SNYPLELKEIYNPPVLLFYQGNIELLSKPKLAVVGARQASQIGCQSVKKIIEKTNQFVIVSGLARGIDTAHVSA
KNGGSSIAVIGSGLDVYYPTEKKNLQEYMSYNHLVLSYFTGEQPLKFHFFERNRIIAGLCQGIVVAEAKMRSGSLI
TCERALEEGREVFALPGNIIDGKSDGCHHLIQEGAKCIISGKDILSEYQ

SeqID 288

MTERTFEDIELDLKLFQIKLDNAENSKRLLOKLNKNDVMELQIELLESKLGDAYLSEEBELEENNDFILTVNSETLS
LSYDNRINLVSKEIMDYENALDKLYYBKQSLMQKSNERKGG

SeqID 289

LFNKIGFRTWKSGLWLYMGVLGSTIILGSSPVSAMDSVGNQSQGNVLERRQDAENRSQGNVLERRQDAENRSQ
NVLERRQDAENRSQGNVLERRQDAENRSQGNVLERRQDAENRSQGNVLERRQDAENRSQGNVLERRQDAENR
SQGNVLERRQDAENRSQGNVLERRQDAENRSQGNVLERRQDAENRSQGNVLERRQDAENRSQGNVLERRQDA
ENRSQGNVLERRQDAENRSQGNVLERRQDAENRSQGNVLERRQDAENRSQGNVLERRQDAENRSQGNVLERRQ
DAENRSQGNVLERRQDAENRSQGNVLERRQDAENRSQGNVLERRQDAENRSQGNVLERRQDAENRSQGNVLERRQ
NVIFKLVGFGILLTSSRCGLRRNEN

SeqID 290

MKRLTYFYFKGYIKETIFGPLFKLLEASFELLVPIVIAKMIDETIPRGDRSSLLQLIGLIFFLAAVGVVVAITAQYYS
SKAAGVYTRQLTEDLYQKVMISLGGKDRDELGTASLITRLTADTFQIQTGLNQFLRLFLRAPIIVFGAIIAMAFSISPS
LTIWFLVMVTLFIIIVFMSRLNPIYLKIRTSTDYLVKLTRQQLQGVVRVIRAFNQVDRESEAFNDINHYTNLQK
AGRLSSLVTPPLTFLVNIITLVVIIWRGNLNIAHLLSQGMLVALINYLLOILVELLKMMLVTSINQSYISAKRIIA
VFERPSEIIDDKLRPKYSNKALEVQEMAFSYPNSSEKALSDITFSMNVGETLGIIGGTGSGKSTLVNLLLHIYKVQE
GDIDIYHQKSPDTISNWRTLVRVVPQNAQLFKGTIRSNLSLGLGKVSEKLTWALEIAQASDFVKEKDGQLDAPVE
SFGNRFSGGQRQLTIARALVQDKIPFLILDDATSALDYLTARLFKAITKHFNQTNLIIVSQRINSIQNADRILL
DKGKQVGFNDHQSLLAHNKVYSIYHSQNFKEE

SeqID 291

MKFNEQSNQAALLGLQHLLAMYAGSILVPIMIASALGYNAEQLYTIATDIFMCGIATLLQLQLSKHFGVGLPVVL
GCAFQSVAPLSIIGAQQSGYMGALIASGIYVVLVAGIFSKVANFFPIVGTGVTITGLTLIPVAMGNMGDNAKE
PSLQSLTSLSVTIGVLLINIFAKGFLKSISILIGLISGTILAAMGLVDASVVAEAPLVHIPPFPYFGAPRFEFTS
ILMMCIIATVSMVESTGVYALSDITNDKLDKRLRNGYRSEGLAVLLGGLFNTFPYTGFSONVGLVQISGIRTRKP
IYFTALFLVILGLLPKFGAMAQMI PPSVLGGAMLVLFGMVALQGMKMLNQVD FEHNEHNFIIAAVSLAAGVGFGNGTN
LFISLPNTLQMF LTNGIVISTLTAVVLNIIILNGLPKKLI

SeqID 292

MANTYDLISORIEAQRQKLIADIVAVASSLGLNLKQSGGHLVWDEHDSFHIYPQTNTFRWWSRSMGTNTIDLVQV
IQEELTGKKPSFRETVNLETGQFESVTVPVREPFKHYLAPYEHNFDLGRQYLKEERGLSDETIDFALASGMS
SATLKKGDYFEPVIIFKSFAEDGRMIGGSLQGIENKVQHPERGRKQIMKHS DGLAGFHLDVGT PKRLVFSEAPID
LLSYELHKESELQNVRLVAMDGVKGVISRYTADLLTDGQYSQTMPRESIRGAIDAINQTTIRLKNPNMIMITIADVN
DEAGRNFIKELQEDGIPINVLDLPPRKEHQSKMDWNNYKQKGLLKMPTQTEGTQKAPEQVLEHEKMDRSQISSGLE
DDPQGSAPKVRDTEFAVTSHTPTFSYPLLQFSTNEAFVSNVRDGYHIASEEDIRNLNYYAPSLQQTANWYRDNL
DRQVTYMLKGDKEIKALQVSAKDKFAHLTGIRPIGKGLSAEKLDDFAKGRGSYPNLTLSNGFNDKIQVLPMIQEL
SQSKSFVFTDLEEVQKMRNLKASHAIQSNNSRLVVALKTIDDVTFPSSLLRGKKNLNDLIQKAKENEVLGVLSEKD
GNITVLSVNDKYIQDGGQALKDMIKNGELEPLQMETIQRHVPHENAYPKDSGDGLTDDEEIALGTNPFSSSDSDGDG
TPDNVEKANGTDPNTASDNEVTRQOEANKRDFTLSEMIKAKNTAALNQLQDGIKQYFSDTYKQYLEGMAHFNNYS

PRNIQLIMSQFPEASMVASFQEWKRNGSVKKGEKAIYIQAQVSVMKKDENGKPIILNPETGEKETITYFKPVPVFDI
KQVSPQEGKELNLPKAMGTIPEQLDKBYQNVYRSLRDISQNNNKVPIRFRELQGEDGFYSPTNEIVIKKGMSYER
TLSTLIHEMAHSELHNKQSLTERFDGKLTTRSTKELQAESIAYVVSSHLGFDTSQESFPYLASWSKEKDGLANLTAQL
EIVQEEAKNLMERIDQQLSQYQTVTLNKETQQLTKQEMKKQTHPFYQSLAAAKTSRAQVTTQEKEASVKKDNRPMTMP

SeqID 293

MNSQETKGGHFFRKSAYGLVCGIALAGAFTLATSQVSADQVTTQATTQTVTQNOAETVTSTQLDKAVDTAKKAAVA
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AGQAAVDARNKAKQQAQDDQKAKIDAENKAESQSVSQLNAQNKAKIDAENKDAQAKADATNAQLQKDYQTKLANIKS
VEAYNAGVRQRNKDAQAKADATNAQLQKDYQAKLALYNQALKAKAEADKQSINNVAFDIKAQAKGVDNAEYNSIMT
AKTKPDGSFEFNHDMIDGVKTIIGYGKLTGKVNHHYVANKDGSVTAQVDSVTLYKYEYRNVAQNAAVNQNI VFRVLTK
DGRPIFEKAHNGNKTFAETLNKTLQNLKYELKPHASSGNVEVFKIHDDWVHDTHGSALVSYVNNNDVAVPNVVIPEQ
PTPPKPEKVTPEARKPVPEKPVPEKLVTPVLKTYTPVKFIPREYKPVSTPETFTPEKFTPAQPKVKPHVSVPEKIN
YKVAVHPVQIPKATPTTKKVLDENGQSINGKSVLPNATLDYVAKQNFQYKGIKASAEAIKGFVFDQPNELAEALT
VKSİKASNGDDVSSLLEMRHVLSDKTDQKLSLIKKEAGISPVGEFYMWTAKDPQAFYKAYVQKGLDITYNLSFKVK
KEFTKGQIKNGVAQIDFGNGYTGNIVVNDLTTPEVHKDVLKEDGKSINNGTVKLGDEVTYKLEGWVVPANRGYDLF
EYKFVDHLQHTHDLYLKDKVVAKVAITLKDGTVPKGTNLVQYTETVYNKETGRYELAFKADFLAQVSRSSAFGADD
FIVVKRIKAGDVYNTADFFVNGNKVKTTETVVTHTPEKPKPVMPQKVTPKAPALPSTGEQGVSVLTVLGAALLSLGL
VGFKKRQQ

SeqID 294

MNQIKIITGLTVATLSAVVGNVYAEDITPTAPVNEPQVSSETAKTPQVTEQVNSAKVTADQATSDVNAQKNVVNNA
QNQKNQAQKLVNATTTLNQKLVQESTNQNVQQTVDQAKQRLSQTEANQKITQTEQVKAQNVNAQQTVVVNNE
HDVATKTADVKAQASVDTAKDALNTIIVNSDLNKAQSNVTTKTADVKATDALTKAQTDKTLTNQKAKAQQIVDS
AKQNLQSAKDTQLSQANAEVNHKFKTALGQSHYYNQDNAGWAGVYGGHTFASTGCVPSALAMVYSDLSNRITITPREI
ADLYLNNTEDEFNKREGGTSGKGIISATKAFGYVTHLASKNAITEALKAGHHVAAVQNNKFSWPQGPQYSHEIVLRG
SSNGNTYVYDPYNRDNNGFYSVDRIWNEQSRDSIDTAGVGVPFFAIMTKNMANALTKQSQALASQOVAQKQLNDAQA
KATGLNAVMTMQTPIAQANLIKAQSNLKAQKRLAEQASVKLANQDNVKKQADLTAKESKLKDAQKQLAAQAKLTT
SKTKLNQLKQVLAESQOVAQANQDYKQAKDNLTKTAYLTNLRNAQANLIKAQSDVAQAKDNLANKIAKLQREVAY
LQELKTKAVDAQSQYQKVLQSAKSVLSAKASLKLAEKARLDDKGHEAVAVVDETGKITSYITSKHKIEMKSLVATK
TTDVQKQSVAKASVLPSTGDKVQVSVALLGMLLTFSGFLGIRKQSKKVIN

SeqID 295

MISRKVALVTGASAGFGAAITVKLVSDGYSVIGCARRMDKLKCFGEKFSQGYFYPLQMDITSRESVDKALESLPKNL
QSIDLLVNNAGLALGLDKSYEADFEDWMTMINTNVGLIYLTRCILPKMVEVNRGLIINLGSTAGTIPYPGANVYGA
SKAFVKQFSLNLRADLAGTKIRVTNLEPGLCEGTEFSTVRFKGDHKKRVEKLYEGAHAIQAE DIANTVSWVASQPEHI
NINRIEIMPVSQTYGPQPVYRD

SeqID 296

MIYLDNAATTALTTPSVIEKMTNVMTSNYGNPSSIHTEFGRQANQLLRECRQIIAEYLVNVSREIIFTSGGTESNNTAI
KGYALANQLKGKHIITSEIEHHSVLHTMTYLSERFGFDITYLKPNGHQITAKDVQEA LRDDTIMVSLMFANNETGDF
LPIQEIGQLLRNHQAVFHVDAVQVFSKMELDPHSLGIDFLAASAHKFHGPKGVGILYCAPHHFDSLHGGDQEEKRR
ASTENIIGIAGMSQALTDATTNTLKNWTHISQLRTTFLDAISDLDFYLNNGQDCLPHVLNIGFPRQNNGLLLTQLDL
AGFAVSTGSACTAGTVEPSHVLTSLYGANSPLNSESIRISFSELNTQEEILELAKTLRKIIGD

SeqID 297

MSRKTFKHILSIGVCTLVLSMSLYYTEKAHAIAGPSDRQYVENPNPHIIVNVTGTDQNGNSILPHYIEVNVKMGQTL
SKEEILDYIARNLSSVGGESKNVQYSNIEFKESAYLKRQLDDGKTEEIAIDNDGVTVPKDGPNKFWIDVPVTCVT
PIVTETHEVRWGTPVAISHRIYFVEESSGKVLDEYTNLHTADSELNGYRVGDYITDYALSKSAYEAFLNSRLDKEGY
KLQHRISTNVRQNLQIDKLIFNYDFNEENIYYQIGNIRPLLSRSSAEVESDIITERIYVSKNAKSLARTESTISIKM
VDAKTEQPLFNHTLTGYQLATVSHVYNRLFEEENLIPTTKSGERYFIQNMKKTAEQEYTVYLSETPYSKENAPVISYD
ARPDWDYHSGASGSLNQPNITYTEEDSTEF LGNKQPAACYPNKQFACENTDSKYNYSYLEK

SeqID 298

MNPLIIGMNDKQAEAVQTTDGPLLIMAGAGSGKTRVLTHRIAYLIDEKYVNPWNILAITFTNKAAREMRERAIALNP
ATQDTLIATFHSVCVRILRREADYIGYNRNFTIIVDPGEQRTLMKRIKQLNLDTKKWNERSILGTISNAKNDLLDEI
AYEKQAGDMYTQVIKCYKAYQEELRRSEAMDFDDLIMMTLRLFDQNKDVLAYYQORYQYIHVDEYQDTNHAQYQLV
KLLASRFKNCVVGADQSIYGWRGADMONILDFEKDYQAKVVLLEENYRSTKKILOAANNVINHNKNRRPKKLWT
ONDEGEQIVYHRANNEQEEAVFVASTIDNIVREQGNFKDFAVLYRTNAQSRTIEEALLKSNIPTVMVGKTFYSRK
BIRDVIAYLNLANTSDNISFERIVNEPKRGVPGTLEKIRSFAYEQNMSLLDASSNMVMSPLKGAAQAVWDLANL
ILTLRSKLDLSTVTEITENLLDKTGYLEALQVQNTLEQARIENTIEEFLSVTKNFDNPEITVEGETGLDRLSRFLN
DLALADTDDSATETAETVTLMTLHAAKGLEFPVFLIGMEEGVPLSRATEDADELEEEERRLAYVGITRAEQILFLT
NANTRTLFGKTSYNRPTRFIREIDDELIOHQGLARPVNSSFGVKYSKEQPTQFGQMSLOQALQARKSNSQPQVTAQ
LOALNANNSHETSWEIGDVATHKKWGDGTVLEVSGSGKTQELKINFPGLKLLASVAPISKKEN

SeqID 299

MKLYVQLMVILTFSSFAGEVLSTIFNLPVPGSIIGLILLFLALKYKIIRLRHIDAVGNFLLANMTILFLPPAVGLMEH
FQDIKPYLFGIAIILGALFLNLTIGLVSQWIKKRYEGDYPEIGGKNGNFNE

SeqID 300

MIFVTVGTHEQQFNRLIKEVDRLKGTGAIDQEVFIQTGYSDFEPONCOWSKFLSYDDMNSYMKEAEIVITHGGPATF
MSVISLGLKLPVVVPRRKQFGEHINDHQIQFFKKIAHLYPLAWIEDVDGLAEVLKRNIATEKYQGNNDMFCHKLEKII
GEI

SeqID 301

MVMKIIELKEATVQVSNGLAEMKTIIDHVNLSIYEHDFITILGGNGAGKSTLFENVLAGTLMLSGGNIYIMQDVTNL
PAEKRAKYLRSRVFQDPKMGTA PRMTVAENLLVAKFRGEBKRLVPRKITNYTEEFQKLIARTGNGLDRHLETPTGLLS
GGQROALSILMATLKPNLILLDEHTAALDPRTSVSLMGLTDEFIKQDSLALMTIHHMEDALKYGNRILVMKDGI
VRDLNQAQKNKMAIADYYQLFD

SeqID 302

MEIKKKHRIMLYSALILGTILVNNSYQAKAEELTKTTSTSQIRDQTNNIEVLQTESTTVKETSTTTTQOQLSNPTA
STATATATHSTMKQVVDNQTONKELVKNGDFNQTNVSGSWSHTSAREWSAWIDKENTADKSPIIQORTEQQQVSLSS
DKGFRGAVTQKVNIDPTKKYEVKFDIETSNKAGQAFRLIMEKKDNTRLWLSEMTSGTTNKHTLTKIYNPKLVSEV
TLELYYKGTGSATFDNISMKAQKPKDSEHPQPVTTQIEESVNTALNKYVFNKADYQYTLTNPGLKIVGGILYPN
ATGSTTVKISDKSGKIIKEVPLSVTASTEDKFTKLLDKWNDVTIGNHVYDTNDSNMQKINQKLDETNAKNIKTIKLD
SNHTFLWKDLNLSNAQLTATYRRLLEDLAKQITNPHSTIYKNEKAIRTVKESLAWLHQNFINVNVKDIEGSANWDF
EIGVPRISITATLALMNNYFTDAEIKTYTDPIEHFVPDAGYFRKTLTDPFKALGGLVDMGRVKIIEGLLRKONTIE
KTSLSLKNLFTTATKAEGFYADGSYIDHTNVAYTGAYGNVLIDGLTQLLPPIIQETDYKISNQELDMVYKWINQSFLP
LIVKGELMDMSRGRSISREAASSHAAVEVLRGFLRLANMSNEERNLDLSTIKTIITSNKFYNVFNMLKSYSDIAN
MNKMLNDSTVATKPLKSNLSTFNSMDRLAYYNAEKDFGFALSLSKRTLNIEGMNDENTRDWYTGDMFYLYNSDQS
HYSNHFVPTVNPYKMGATTEKDAKREDTTKEFMSKHSKDAKEKTGQVTGTSDFVGSVKLNDHFAALAMDFTNWDRTL
TAQKGWVILNDKIVFLGSNIKNTNGIGNVSTTIDQRKDDSKTPYTTYVNGKTIDLKQASSQQFTDTKSVFLESKEPG
RNIGYIFPKNSTIDIERKEQTGTWNSINRTSKNTSIVSNPFITISQKHDNKGDSYGYMMVFNIDRTSFDKLANSKEV
ELLENSSKQQVIYDKNSQTWAVIKHDNQESLINNQFKMNKAGLYLVQKVGNDYQNVVYQPTMTKTDLAI

SeqID 303

MHSFSNPGYPYDNAVTEAFFKYLKHRQINRKHYQNIKQVQLDCFEYIENFYNNYNPHTANLGLTPNQKEENYFNAIK

SeqID 304

VKITYGYIGSVAAILLATHIGSYQLGKHHMGLATKDNQIAYIDDSKGGKAKAPKTNKTMQISAEEGISAEQIVVKIT
DQGYVTSHGDHYHFYNGKVPYDAIISEELLMTDPNRYFKQSDVINEILDGYVIKVGNGYVYVLYKPGSKRKNIRTKQQ
IAEQVAKGTKEAKEKGLAQVAHLSKEEVAAVNEAKRQGRYTTDDGYIFSPTDIIDDGLDAYLVPHGNYHYIPKDDL
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GKTFKELLQDLHRLDLKYRHVEEDGLIFEPTQVIKSNAFGYVVPHGHDYHIIPRSQLSPELMELADRYFLAGQEDND
SGSEHSKPSDKVTHFTFLGHRIKAYGKGLDGKPYDTSDAYVFSKESIHSVDSKGVTAHGHDFHYIGFGELEQYELD
EVANWVKAKGQADELAAALDQEQGKEKPLFDTKKVSRRKVTGDKGVGYMMPKDGKDYFYARDQLDLTQIAFAEQELML
KDKKHRYRDI VDTGIEPRLAVDVSSLPMHAGNATYDTGSSFVI PHIDHIHVVPYSWLTRDQIATVKYVMQHPEVRPD
VWSKPGHEESGSVIPNVTPDKRAGMPNWI IHSAAEVQKALAEGRFATPDGYIFDPRDVLAKETFWVKDGSFSIPR
ADGSSLRTINKSDLSQAEWQQAQELLAKKNTGDATDTPKPEKQQAQDKSNENQQPSEASKEEKESDDFIDSLPDYGL
DRATLEDHINQLAQKANIDPKYLIFQPEGVQFYFNKNGELVYDIKTLLQINP

SeqID 305

MKKGFFLMAMVVSLVMIAGCDKSANPKQPTQGMSVVTSFYPMYAMTKEVSGDLNDVRMIQSGAGIHSFEPSVNDVAA
IYDADLFVYHSHTLEAWARDLDPNLKSKVDVFEASKPLTLDRVKGLEDMEVTQGIDPATLYDPHTWTDVPLAGEEA
VNIAKELGRLDPKHKDSYTKKAKAFKKEAEQLTEEYTKQFKKVRSKTFVTQHTAFSYLAKRFGLKQLGISGISPEQE
PSPRQLKEIQDFVKEYNVKTI FAEDNVNPKIAHALAKSTGAKVKTLSPLEAAPSNGKTYLENLRANLEVLYQQLK

SeqID 306

LRKKQKLFPDKLAIALMSTSIILLNAQSDIKANTVTEDTPATEQTVETPQPTAVSERAPSSKETKTPQTPSDAGETVA
DDANDLAPQAPAKTADTPATSKATIRDLNDPSQVKTLQEKAGKGAGTVVAVIDAGFDKNHEAWRLTDKAKARYQSKE
DLEKAKKEHGITYGEWVNDKVAYYHDYSKDGKTAVDQEHGTHVSGILSGNAPSETKEPYRLEGAMPEAQLLLLMRVEI
VNGLDYARNYAQAIRDAINLGAKVINMSFGNAALAYANLPDETKKAFDYAKSKGVSIVTSAGNDSFFGCKTRLPLA
DHPDYGVVGTAAADSTLTVASISPDKQLTETATVKTADQDKEMPVLSTNRFEPNKAYDYAYANRGTKEDDFKDVK
GKIALIERGDIDFKDKIAKAKAGAVGLIYDNQDKGFPIELPNVDQMPAAFI SRKDGLLLKDNPKQKTIITFNATPKV
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ERLDLAKKVLMSATALYDEDEKAYFSRQOGAGAVDAKASAAATMYVTDKNTSSKVHLNNVSDKFEVTVTVHNKS
DKPQELYYQATVQTDKVDGKHFAALAPKALYETSWQKITIPANSSKQVTVPIDASRFSKDLAQMKNYFLEGFVRFK
QDPKKEELMSIPYIGFRGDFGNLSALEKPIYDSKDGSSYYHEANSADKQDLGDGLQFYALKNNFTALTTESNPWTI
IKAVKEGVENIEDIESSEITETIFAGTFAKQDDSHYYIHRHANGKPYAAISPNGDGNRDYVQFGQFTLRNAKNLVA

EVLDKEGNNVWTSEVTEQVVKNNNDLASTLGSTRFEKTRWDGKDKDGKVVANGTYTYRVRYTPISSGAKEQHTDFD
VIVDNTTPEVATSATFSTEDRRLTLASKPKTSQPVYRERIAAYTYMDEDLPTTEYISPNEGDTFTLPEEAETMEGATV
PLKMSDFTYVVEDMAGNITYTPVTKLLEGHSNKPEQDGSQDQAPDKKPEAKPEQDGSQDTPDKKTETKPEKDSSGQTP
GKTPQKGQPSRTLEKRSSKRALATKASTRDQLPTTNDKDTNRLHLLKLVMTTFFLGLVAHIFKTKRQKETKK

SeqID 307

FSVTYSQSERTVVFSGEITFSRSRWINGFETRIPVDEWLGLEKYKRYSEFLYHVAKLATMMPYRQVCKVIDSTLQ
TIITKDCVLKAVKFVEKLLKEKERYFYLEPPERKKVKLYVEGDGVMIKSTDSREERRYLDLTHFVIHTGSKKVS
TKRYELQDKHEILQLNYDKAKYNLLDYIYNNYEVDDDTILITNSDMGKGYTSRVFKELGKALKVKKHEHFWDIYHVK
EKLSSYLKYPIELTDFALDAVKYNSDKLELVFDTVESLICDELEDQEFQKFKKKVLNNFKYIKPAHLRNLNSNGI
GIMESQHRKITYRMKRRGMYSKWKWISTMANMIILERANGLRBLFFGSRWKVYSEYKEGSFSAGRLFKKTDDELKFS
KPLLKNGRKWSITGIKTK

SeqID 308

KASSGDYGTKRBIITANKDKYSISKMCRWLNMPRSSYVYQAVESVSKTEFEETIKRIFLDSBSRYGSRKIKICLNNE
GITLSRRRIRIRIMKRLNLVSVYQKATFKPHSRGKNEAPIPNHLDRQFQOERPLQALVTDLTIVRVGNRWAYVCLIID
LYNREIIGLSLGHKTAELVKQAIQSIPIYALTKVKMFHSDRGKEFDNLIDEILEAFGITRSLSQAGCPYDनावES
TYRAFKEFVYQETQFQSLLEELALKTEKATLFTCTTFIKCCLFRFLPML

SeqID 309

MKTRNRKGGYLANTANEYIDSKQAIHCLSVELEPQIRFEEGQPTGEIAYKAWFSQKGLPPFMVKFENEVTLPAYMV
MVQFENLQACEVGFNVYFKADNLKEVK

SeqID 310

LSTFDSVTGRNHLAEYEGNLNLEKFAILSHFDKLRNELQTPSIQLGEFDREMEAFSITLGNELLGYLEANGSPYEL
KRELNOAENMAVLELSRQLVAKFSTKLEELGIDLGSFQPDQVNIILDAVGRFRLKNADIALLGYPKASVSQALALAT
ELLQMGSLSHDKVEFFLTSQQLQLEDMRQVAFALHESLTREEAEQFETDRFRHTSLNFWREWRELLEKQEPMEMVMSDV
SPLVREVLIHHYPLGSRVYTKGQEFELISIEAADMDNLIRIELQNDFSYLIEQNPVLYFQNLAEIRQVLHLSRSEIVE
REEQPEEWTFLFSFMDEGTEDNEKEPEIVFESTDKVVTLDSPQAQVSETISESVPETKEVIEAEQAIADVDFSPEDL
TNFYPKTARDKVVANLVAIRLVKELESANQSATPNEQEILAKYVGWGLLANEFFDEYNPKFSKERBELKTLVSDKEY
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NVHIEVKGFETVAFNDNSFDLVISNVPPFANIRIADNQYDKPYMIHDYFVKKSLDLVHDGGQVAIISSSTGTMDKRTE
ILQDIRETTDFLGGVRLPDTAFKALAGTSVTTDMLFFQKHLNKGQYQADDIAFSGSVRYDKDERIWNLPYFDGYNQ
VLGRYEIKNFNGGTLVSVKETDNLIASVREALQHVKAAPRVIDKTEVMINSVDIARQVIDTTIPPEIRENLEQYSYGY
KGSTIYYRDNKGIRVGTKTEEISYYVDDEGNFQAWESKHSQKQIDRFNNLEVTDSTALDVYVTEPAKRGQFKGYFK
KAVFYEAPLSEKEVARIKGMVDIRNAYQEVIAIQRNVDYDKNEFNRLGNLNRITYDSFVKRYGFLNSPVNRNLFDS
DKYSLLASLEDESIDPSGKTVIYTKSLAFKALVRPEKMVKEVSTALDALNSSLADGRGVDFDYMASIYQTASKAAL
IEELGDQIIPDPESYLKQLTYVSRQEFSLGDIVTKLEVMDLLLQDNHDFNWAHYGNLLESVRPARVMLADIDYRI
GSRWIPLAYVYKGFQEAFFMGKNYDLTATEVEEVLVSVPIDGTMEFRTRFAYTYSTATDRSLGVAGSRYDSGRKIFEN
LLNSNQPTITKQIQEGDKKNVTDVEKTTVLRAKRAQIQDLFQDFVASYPEAQQMIEDTYNSLYNRTVSKVYDGSRL
EIDGLAQNISLRPHQKNAIQRIVEEKRALLAHEVSGSKTLTILGAGFKLKLGMVHKPLVVPSSSLTAQFGQEIIMKF
FPTKKVYVTTKKDFAKARRKQFVSRIITGDYDAIVIGDSQFEKIPMSQEKQVYTIQDKLEQLREIKQGSDDSYTVKE
AERSIKGLENLQLEELQKLDRTFIEFENLGIDFLFVDEAHFKNIRPITGLGNVAGITNTTSKKNVDMEMKVRQIQ
EYGDNRNVFATGTPVSNISIELYTMNYIQPDVLERYQVSNFDSWVGAFGNIENSMELAPTDGKYQPKKRFFKFFVNL
PELMRIYKETADIQTSMDLDPVPEATVIAVESELTEAQKNYLEELVDRSDAIKSGSVDPSVDNMLKVIGEARKLAI
DMRLIDPAYTLSDNRKQINQVVDNVERIYREGKGDKNATQMFSDIGTPKSKEEGFDVYNELKALLVDRGIPKEBIAFV
HDANTDEKKNLSNRSKMSGEVRILMASTEKGGTGLNVQARMKAVHHLDPVWRPSDIQQRNGRLIRQGNQHONQIEIYH
YITKGSFDNYLWATQENKLYIKQIMTSKDPVRSADIDEQMTASDFKALATGNPYLKLKMELENELTVLENQKRA
FNRSKDEYRHTISYCKNLPVMEKRLRQYDRDIEKSQATKNQEFIMRFDNQIDNRSEAGDYLRKLITYNRSETKEV
RTLATFRGFELKMATRSPGEPLSDMVSLTISGDNQYSVSLDLKSDVGTIQRINNAIDHILEDKEKTEEMTNNLKDKL
AVARVEVEKVFKEEYQLVAKYDVLAPLVEREADLEEIDVALSQFSSSDPCLKKDQQLVLDI

SeqID 311

MTTKCNHFLINQEKGEKYVFRKSKQYRTLCSVALGTVVMAFVALAGPMVQADEVGRVATSVQTTETNPATNLKENQ
PSPIAEQKDSLAATGQSTGTVTVTVPKDKVTQAVDKAKTEGIAVQDKPMDLGNVTVSAAETSQQLKKAEDATNQTT
TISKTVETKSDKATYAEKKWVEKRNEELTAAYDKAEQTGTGLNHSVDITVSELKSQDQNAHVTVNTQTVKSGDGT
SVSGYQYVKSVAADKKNKANLADYRTKKQAADAVVAKNQLIQKENEAGLAKAKAENEATDRRNKEGQKAVDEANK
AGQAAVEQANQEKQKQAAANRAFEIATITKRNKEREEVAKKENAIDAYNAKEWIRYKRDLANISKGEEGYISEALAQ
ALDNLHGEQPQKHGAGTRNPDRIIISKGDAMLGGYSNILDSTGFFVYNHFKTGETLNFYQNLKHARFDGKKITAITY
DITNLVSPGTGNAQVQLVVPNDPTGFIAYRNDGAGNWRDCKMEFRVKARYFLEDGSQVTFTEKEKPGVFTHSSLNHND
IGLEYVKDSSGKGFVPIHGSSVQVTNEGLARSLGSNRASDLKLPEEWDTTSSRYAYKGAIVSTVTSIGNIYTVTFGQGD
MPTQVGKTYWPAFALNTLPVAKTVTPYNPKTHVRPQLDPVPEPIKVTPEYTPPKIPTPEKPVFTTPKSVEKVPQPSLT
LTKVTLPTNLKLEPLKAPQKPTVHYHDYLLTTTPAIAKEVMNVDKVNLHGKQVAKDSTVIYPLTVDVLSPNRSKIT
SLIFEDYLPAGYAFDMTKTQAENSDDYDLTFDKNKNFVTLKAKDSLQTLNKLNLKSYQLSAPKLYGSGVQNDGATYSN
SYKLLINKDTPNTYTVISNVVRIRTPGDGETTSRIRPKKDNENADGVLLINDTVVALSTTNHYRLTWDLDQYKGDTS

KDTIARGFLFVDDYPEEALDLVDKGTVITTLTGKAVSGISVYSYTSLSKAPKELQDKLARANISPKGAFQVFEPDNH
QAFYDTYVKTGQSLALITKMKVKDSLYGQTVRYKKNAYQVDFGNGYETKEVVNTVHVHEPKKQNLNKKDKVDINGKAM
LVGSONFYTLTSLWDLQYRGLQADKSQIAQGFYFVDDYPEDVLLPDTKAIQIMTKDGKAVKGMEIKTYHQLSDAPKEL
QAALAKRNIITPKGAFQVFMPKDPQAFYKAYVTTGQNLITVNPMTVREAVNSGKSYDNVAYQVDFGQAYETNIVTNH
VPTVNPBKSNINKEGVSIEGKTVLENTVNYKIVLDYSQYKNIIVTDDVLVKGFMVDDYPEEALTPHPDGTQVMDQ
NGKFVRGLSVRTYASLADAPKAVQEAMKSRNFIPKGAIQVFQADDPKTFETVYVKTGQKLVTTPMTVKNRIQTGG
QYENTAYQIDFGIAYVTETVNNVVKLEPQKDVVIDLSQKDKSLNGKALALDQVFNRYLVGSLIPRNRATALVEYSF
KDDYDEKHDEYKGVYKAYTLRDVTLKDGTVLKQGTETVTRYTLQSVDAKGTIAIRFDTAFLENIADSEFQAELYLQ
MKRIASGDVENTVIHSHVNGYNIRSNTVKTTPQPSPTPDNPPSPQPPVPTTESPVQASVLPSTGESQSLLALIGGG
LLLGLAYGLSKRKKKEKN

SeqID 312

MANNNFYNRDPFGNMDDIFNSLMGNMGYNSENKRYLINGREVTPEEFSQYRQTGKLPQQLNNQNTPTNQVSADSV
LTKLGTNLTDQARQHLLDPVIGRNKEIQETAELARRTKNNPVLVGDAVGKTAVIEGLAQAIINGDVPAAIKNKEI
ISIDISSLEAGTQYRGSFEENIQNIIEVKETGNILFFDEIHQILGAGSTGGDSGSKGLADILKPALSRGELTVIG
ATTQDEYRNTILKNAALARRFNEVKVNAPSAQDTFNILMGIRNLYEQHHNVLPDSVLKAAVDLSIQYIPQRSPLPK
AIDLIDMTAAHLAAQHPVTDLKSLEKEIAAQRDQKQKAVNTEDFEEALKVKTRIEELQNQIDNHTGEGQKVATINDI
AMSIERLTGVPVSNMGASDIERLKELGNRLKGVIGQNDAVEAVARAIIRNRAGFDDGNRPIGSFLVFGPTGVGKTE
LAKQLAFDMFGSKDAIVRLDMSEYNDRTAVSKLIGATAGYVGYDDNSNTLTERIRRNYPYSIVLLDEIEKADPQVITL
LLQVLDDGRLTDGQGNITNFKNVTVIIATSNAGFGNEAFTGDSKDLKIMERISPYFRPEFLNRFGVIEFSHLSKDD
LNEIVDLMLDEVNQITIGKKGIDLVDENVKSHLIDLGYDEAMGVRPLRRVIEQEIIRDRIITDYLDHTDVKHLKANLQ
DQQIVISER

SeqID 313

MGRFKELLESKKALILHGALGTELESRGCDVSGKLWSDKYLIEDPAAIQTIHEDYIRAGADIVTTSTYQATLQGLAQ
VGVSESAQEDLIRLTQVLAKAVREQVWKSILTKEEKSERIYPLISGDVGPYAAFLADGSEYTGLYDIYKEGLKNFHRH
RIELLLDEGVLDLLALETIPNAQAEALIELLVEDFPQVEAYMSFTSQDGKTSIDGSAVAGLAKAIDVSPQVVALGIN
CSSPSLVADFLQAIAEQTDKPLVTYPNSGEIYDGASQSWQSSRDHSHTLLENTSDWQKLGAQVVGCCRTRPADIAD
LSEHLT

SeqID 314

MKIGIDKIGFATSQYVLEMTDLAIARQVDPEKFSKGLLLDSLSITPVTEIDIVTLAASAANDILSDEKETIDMVIVA
TESSIDQSKAASVYVHQLLEIQPFARSFEMKEACYSATAALDYAKLHVEKHPDSKVLVIAADIAKYGIKSTGESTQG
AGSIAMLLISQNPISILELKEDRLAQTRDIMDFWRPNYSVDPYVNGMFSTKQYLDMLKTTWKEYQKRFNLSLSDYAAFC
FHIPFPKLALKGFNKILDNNDLEQKKAELQENFEHSITYSKKIGNCYTGSLLYGLLSLLENSQNLKAGDQIAFFSYG
SGAVAEIFTGQLVDGYQNKLQSDRMDQLNKRQKITVTEYEKLFTEKILTIDENGANFNNTYRTGTFSLSICEHQRIY
KKINN

SeqID 315

MKSAYIFFNPKSGKDEQALAEVKSYLEHDFQDDYVRIITPSSVEEAVAKKASEDHIDLVIPLGGDGTINKICG
GVYAGGAYPTIGLVPAAGTVNNFSKALNIPQERNLALENLLNGHVKSVDICKVNDYMISSLTGLLLADIAANVTSEM
KRKLGPFAFVGDAYRILKRNRSYSITLAYDNNVRSRLRLLITMTNSIAGMPAFSPEATIDDGLFRVYTMHEIHFF
KLLHLRQFRKGFDFSQAKEIKHFHTNNLTISTFKRKSAPKVRIDGDPGDLVPKVEVIPKALKFIIPNSLP

SeqID 316

MTTFTAKFIDQEWEPVSESGRYHMIVGEFCPYAQRQPQIARQLLGLDKHISISFVDDVPSDIGLIFSQPEQVTGAKSL
RDIYHLTDPTYKGPYTIPIILIDKTDNRIVCKESADMLRLFTTDFSDLHQEDAPVLFQSQTASLIDNDIKDINNPFQS
LMYKLAFLDKQADYDYSKEFFTFLDQKEHLLGQRPFLGDNLSEVDIHFFTPLVRWDIAGRLLLLNQKALEDYPN
IFSWAKTLYNDFNLKTLTNPQSIKNYYLKGFGRAVRHHTIVPTGPNMVKWEK

SeqID 317

MKKKIILKSSVLGLVAGTSIMFSSAFADQGVGVQVIGVNDFHGALDNTGTANMPDGKVTNAGTAAQLDAYIDDAQKDF
KQTNPNGESIRVQAGDMVGASPANSGLLQDEPTVKTFTNAMNVEYGTGNGHEFDEGLAEYNRIVTGKAPAPDSNINNI
TKSYPHAAKQEIIVANVIDKVNKQIPYNWKPYAIPNPNKSVNVGPIGIVTKDIPNLVLRKNYEQYEFLEAET
IVKYAKELQAKNVKAIIVVLAHVPAATSKDDIAEGEAAEMMKVNVQLFPENSVDIVFAGHNHQTNGLVGKTRIVQALS
QGKAYADVRGVLDTDTQDFIETPSAKVVAVAPGKKTGSADIQAIVDQANTIVKQVTEAKIGTAEVSGMITRSVDQDN
VSPVGLSLITEAQLAARKSWPDIDFAMTNNGGIRADLLIKPDGTITWGAAQAVQPFGNILQVVEITGRDLYKALNEQ
YDQKQNFLLQIAGLRYTYTDNKEGGEETPFKVVKAYKSNNGEINPDACYKLVINDFLFGGGDGFASFRNAKLLGAIN
PDTEVFMAYITDLEKAGKVSVPNNKPIYVTMKNVNETITQNDGTHSIIKKLYLDRQGNITVAQEIIVSDTLNQTKSK
STKINPVTTIHKKQLHQFTAINPMRNYGKPSNSTTVKSKQLPKTNSEYQGSFLMSVFGVGLIGIALNTKKKHKM

SeqID 318

MAYIWSYLKRYPNWLWLDLLGAMLFVTVILGMPTALAGMIDNGVTKGDRGTGVYLWTFIMFIFVVLGIIGRITMAYAS
SRLTTTMRDMRNDMYAKLQEYSHHEYEQIGVSSLVTRMTSDTFVLMQFAEMSLRLGLVTPMVMIFSVMILITSPS
LAWLVAVAMPPLLVGVLVYVAIKTKPLSERQQTMLDKINQYVRENLTGLRVVRAFARENFSQKFQVANQRYTDTSTG

MKKGQVNDTKQSYSLRKYKFGLASVILGPFIMVTSVPVFADQTTTSVQVNNQTGTSDANNSSNETSASSVITSNNDSV
 QASDKVNSQNTATKDITTPLVETKPMVEKTLPEQGNVYVSKETEVKNTPSKSAPVAFYAKKGDKVFYDQVFNKDNV
 KWISYKSCGVRRYAAIESLDPSSGGSETKAPTPTVNSGSNNQEKIATQGNVYTFSHKVEVKNEAKVASPTQFTLDKGD
 RIFYDQILFTIEGNQWLSYKSFNGVRRFVLLGKASSVEKTEDKEKVSPPQARITKTGRLTISNETTTGFDILITNIK
 DDNGIAAVKVPVWTEQGGQDDIKWYTAVTTGDGNYKVAVSFADHKNEKGLYNIHLYYQEASGTLVGVGTGKVTVAGT
 NSSQEPiENGLAKTGVYNIIGSTEVKNEAKISSQTQFTLEKGDKINYDQVLTADGYQWISYKSYSGVRRYIPVKKLT
 TSSEKAKDEATKPTSYPNLPKTGTYYTFTKTVDVKSYQPKVSSPVEFNFQKGEKIHYDQVLVVDGHQWISYKSYSGIRR
 YIEI

MENWKFALSSILGHKMR AFLITMLGIIIGVASVVLIMALGKG MKDSVTNEITKSQKNLQIYYKTKEDQKNEDNFGAQQ
AFMQGSDTNRKEPIIQESWLKKIAKEVDGVSGYYVTNQTNPVAYLEKKAKTVNITGVNRTYLGIKKFKIKSGRQFQ
EEDYNQFSRVILLEEKLAQRLFQTNEAALNKVVTVKNKSYLVGVVSDPEAGSGLYGSNSDGNAILTNTQLASEFGA
KEAENIYFHLNDVSQSNRIGKEIGKRLTDISHAKDGYDNDFDMTSIVKSINTQVGIMTGVGIAIAAISLLVGGIGVM
NIMLVSVTERTREIGLRKALGATRRKILAQFLIESMVLITILGGLIGLLLAYGGTM LIAANAQDKITPSVSLNVAIGSL
IFSAFIGLITGLLIPANKASKINPIDAIRYE

MOYSEIMIRYGELSTKKKNRMRFINKLKNMEHVLSIYPDVSVKTDTRDRGRHVYLNGLTDYHEVAESLKEIFGIQAFSP
SFKVEKNVDTLVKAVQEIMTSVYKDGMTFFKITAKRSDHSFELDSRALNHTLGDAVFSVLPNIKAQMKQPDINLKVEI
RDEAAYISYENIRGAGGLPVGTSGKGMLMLSGGIDSPVAGYLALKRGVDEAVHFASPPYTPSGALKKAHDLTRKLT
KFGGNIQFIEVPFTEIQEEIKEAPEAYLMTLTRRFMMRITDRIRENRNGLVIINGESLGQVASQTLESMQAINAVT
ATPIIRPVVMTDKLEIDIAQKIDTFDISIQPFEDCCTIFAPDRPKTNPKIKNTEQYEKRM DVEGLVERAVAGIMVT
TIOQOASDDVDDLIDDLI.

MARVKGGVVSRKRRKRVLKIAKGYGAKHILFRTAKEQVMNSYYYAYRDREQKRDFRKLWITRINAAARMNGLSYS
QLMHGLKLAIEFVNRKMLADLAVNDAAAFTALADAAKAKLGK

MFKASKKLVQKNKSNHFWLWFFITLILFLIGCYASLRFGAINFKTSDLITVLKNPLKNSNAQDVIFDIRLPRIIAAI
LVGAAMSQAGAIMQGVTRNAIADPGLLGINAGAGLALVVAYAFPLGSMHYSTILIVCLLGSVISYLLVFTLSYTKQKG
YHQLRLILAGAMISTLFTSVGQVVTLFYKFLNRTVIGWQAGGLSQINWKMLIIIIAPIIILGLLISQLLAHQLTILSLN
ESVAKALGQKTQLMTAFLLILVFLSASSVALIGTIVSFIGLIIPHFIKLFIPKDYRLLLPLIGFSGATFMIWVDLSS
RIINPPSETPISSIIISIVGLPCFLWLIRKGNL

MIKRPIHLSHDFLAVIDKEAITLDATMGNGNDTVFLAKSSKKVYAFDIQBEAIAKTKAKLTEQGISNAELILDGHE
NLEQYVHTPLRAAIFNLGYLPSADKTVITKPHTTIKAIKNVLDILEVGGRLSLMVYYGHDGKSEKDAVIAFVEQLP
QNNFATMLYQPLNOVNTPPFLIMVEKLOSYLENEV

MRVHITSIYGQSPRSIALISQKLVKDVGRQLGYDEMGIYFYNDHAETHGERSTRMDGIIAGLGRGDIVVFQVPTWNS
TEFDEFLDKLQAYGARIITFVHDIVPLMFESNFYLLDRVIDMYNRSDVILPTKAMHDYLIKGMTTSKVLYQEVW
DHPVNIDLPRPECQKVLFSFAGDIQRFPPVNDWKENIPLIYYGDGSRLLNSEANVHAQGWKDDVELMLSLSKRGGFGLC
WSEDRBELVERRYSRMNASYKLSLFLAAGLPIIANHDISSRDFIKQHGLGFTVETLEEAVEKINNMEKETYDSYVEN
VEKIALTLRNGYITKKLLIDAVHMLYR

MSQKTFGKQLTVDTKSRVMMHKSCKNNWVRTVMSHFNLFKAIKGRATVEADVCIQDVEKEDRLSSGNLTYLKGLILAA
GALVGGASLTSRVYADETPVVQEQSSSVPTLAEQTEVTVKTTTVQNHQDGTVSKNIIDSNSVSMSESASTSTSESVS
MSMSGSTLTSVSRVSSTALTSASESISTSASESVSKSTSISEVSNILETQASLTDKGRESFSANQIVTESSLVTD
GKNABVS SLIETPKPKSELQTSKMSNESLITPEKSQVMIASDKTGNESLTPTRLKSVIQPRSMNLMTLSSSEMDLIP
LREVS DTEMLGKDVSSSELQKVNIALKDNLTSEP GTVKLDSSENVLNFAFSIASVNEG DVFTVKLSDNLD TQGIGTI
LKVQDIMDETQGLLATGSYSPLTHNITYTWTTRYASTLNNIKARVNMPVWPDQRIISKTTSDKQCFTATLNNQVASIE
ERVQYNSPSVTEHTNVKTNVRSRIMKLDDQRYTETITYIQINPEGKEMYFASGLGNLYTIIGSDGTSGSPVNLLNAEV
KILKTNKSNLTDMSMDQNYDSPEDVTSQYSYTTNDGSKITIDWKTNISSTTSYVVLVKIPKQSGVLYSTVSDINQ
YGSKYSYGHNTNISGDS DANAEIKLLSESASTSASTSASTSASMSASTSASTSASMSASTSASTSASTSASTSASTS

[illegible]

SeqID 327

MIDRKDTRNRFKLVSKYSPSGDQPQAIETLVDNIEGGEKAQILKGATGTGKTYTMSQVIAQVKNPPTLVIAHNKTLAQ
LYGEFKEFFPDNAVEYFVSYYDYQPEAYVPSSDITYIEKDSSVNDIDKLRHSATSSLLERNVIVVASVSCIYGLG
SPKEYADSVVSLRPGQEISRDQLLNNLVDIQFERNDIDFQRGKFRVRGDDVEVFPASRDEHAFRIEFFGDEIDRIE
IESLTGRVLGEVEHLAIFPATHFMTNDEHMEEAISKIQAEENQVELFEKEGKLEAQRIRQRTEYDIEMLEMGYT
NGVENYSRHMDGRSEGEPPFTLLDFFPEDFLIMIDESHMTMGQIKGMYNGDRSRKEMLVNYGFRLPALDNRPLRRE
EFESHVHQIVVYSATPGDYEMEQTDTVVEQIIRPTGLLDPEVEVRPSMGQMDLLGEINLRTEKGERTFITTLTKRM
AEDTLDYLKEMGVKVKYMHSDIKTLTEIETDLRLGVFDVLIGINLLREGIDVPEVSLVAILDADKEGFLRNERGL
QITIGRAARNSNGHVIMYADKITSQRAMDETARRRLQMDYNEKHGIVPQTIKKEIRDLLAITKSNDSKDKEKVV
DYSSLKKERQAEIKALQQQMQRAAELLDLFELAAQIRDVILELKAID

SeqID 328

MKHKLKAFTLALLSIFVFGGKVS AETVNIVSDTAYAPFEFKDSDQTYKGIDVDIVNEVAKRAGWNVNMTYPGFDAA
 VNAVQSGQADALMAGTTVTEARKKVFNFSDTYYDTSVILYTKNNKVTNYKQLKGKVVGVKNGTAAQS FLEENKSKY
 GYKVKTFDTS DLMNNSLDSGSIYAAMDDQPVVQFAINQ GKAYAINMEGEAVGSPAFAVKKGSGHDNLIKEFNTAFAQ
 MKSDGTYNIMDKWL GKDATKTSGKATGNANEKATPVKPSYKIVSDSS FAPFEYQNGKGKYTGFDMELIK KLIKQQG
 FKLDISNPGFDAALNAVQSGQADGVIAGATITEARQKIPFSDPYTSSVILAVKKGSNVKS YQDLKGKTVGAKNGT
 ASYTWLS DHADKYNHYHVKAFDEASTMYDSMNSGSIDALMDDEAVLAYAINQGRKFETPIKGEKSGDIGFAVKKGANP
 ELIKMFNGLASLKKSGEYDKLVKKYLSTASTSSNDKAAKPVDESTILGLISNNYKQLLSGIGTTLSLTLISFAIAM
 VIGIIFGNMVSVPSPNLT RLSMIFDVIVRGIPMLVAAFIFWGI PNLESITGHQSPINDFVAATIALSLNGGAYLA
 EIVRGGBIHAVPSGQMEASRLSGISYGKTMQKVLIPQAVRLMLPNFINQFVISLKD TTVSAIGLVLELFQTGKIIAR
 NYQSFMYAILAIMYLVIIITLLTRLAKRLEKRLK

SeqID 329

MGDKPISFRDKDGNFVSAADVWNAEKLLELFNTLNPNRKLRLEREKLAKEKG

SeqID 330

MET Y T L S N T L N I P K I G F G T W Q L T E G E E A Y K A V T H A L K V G Y T H I D T A Q I Y G N E H S V G R A I R D S G L A R E S I F L T T K I W N
D K H D Y H L A K A S I D E S L Q K L G V D Y I D L L L I H W P N P K A L R E N D A W K A G N A G T W K A M E E A Y K E G K V K A I G V S N F M K H H L E
A L F E T A E I K P M V N Q I I L A P G C A Q E D L V R F C K G N D I L L E A Y S P F G T G A I F E N E S I K A I A E K Y G K S V A Q V A L R W S L D N G
F L P L P K S A T P K N I E A N L D I F D F Q L N E D D I T T L I Q L D S G I K P K D P D N V S F

SeqID 331

MVKGQGNVVAQNKKAHHDYITIVETIEAGIVLTGTEIKSVRAARITLKDGYAQIKNGEAWLINVHITPYDQGNIWNQD
 PDRTRKLLLLKKREIEKISNELKGTGMTLVPLKVYLKDGFAKVLLGLAKGKHDYDKRESIKRREQNRDIARQLKNYNS
 R

SeqID 332

MDHFTKLWQDFSKLPNVVAIALGGSRSRGSDFDQSSDYDLVYCAATPDITSRKRILNKHCHYIELNNHYWELEDNGT
LNDGTDIDILYRNIDNFLSDLEDVVEHNSRIGYTTCFWHNLINCOILYDPENQLQSLKERFEVSPSQLQKQIIQ
NRNLLTGKLPYDKQIIKALKRQDFVSTHRTTAFLDYSYFDIIFALNKLTHPGEKRMISYAKKNATLLPKHFEENII
KLCHHSNEHTVKETLNDIIMHLDMVLKENFOHFIG

SeqID 333

MKKIIYGLGLACVSIILTLSCESIERSLKGDRYVDQKLAENSSKEATEQLNKKTKQALKADKKAFFQLDKAVAKNEAQ
 VLIKTSKGDINIKLFPKYAPLAVENFLTHAKEGYINGLSFHRVIKDFMIQSGDPNGDGTGGKSIWNSKDKKKDSGNG
 FVNEISPYLYNIRGSLAMANAGADTNGSQFFINQSQQDHSKQLSDKKVPKVIIKAYSEGGNPSLDGGYTVFGQVISG
 METVDKIASVEVTKSDOPKEKITITSIKVIKDYKFK

SeqID 334

MKIGIIAAMEEELKLLVENLEDKSKQETVLNVVYSGRYGEHELVLVQSGVGKVMSSAMSVAILVESFKVDALINTGSA
 GAVATGLNVGDVVVADTLVYHVDLTAFGYDYGQMSMQPLYFHSKTFVSTFEAVLSKBEEMTSKVGLIATGDSFIAG
 QEKIDVIKGHFPQVLAVEMEGAAIAQAAQATGKPFVVVRAMSDTAHDANITFDEFIIEAGKRSAQVLMAPLAKAL

SeqID 335

MEKRLSLGALVLA STVLLAACGNVGGGASSTG TKIGKDIKVGNWELSGNVSSYGNMKNAGDLAVKEINAAGGVGG
KKLKVLSQDNKSENABAATVATNLVTKGANVIIGPATSGAAASSTPKVNAAAVPMIAPAATQDNLVYGS DGTGLNQY
FFRATFVDNYQGGKLLSQYATDNLKAKKVLFYDNSSDYSGVAKSEKESYSGKIVDSMTFSAGDTDFQASLT KLGK
EYDAIVMPGYTTETGLIVKQARDLGISKPVLPDGDGFDSPKFVQSATPVGASNVYYLTGFTTQGSTKAKAFHDHYVKA
YGEPSMFSALS YDAVYMAAKSAKAKTSIDLKKALAKLDFKGVTKMSIDKNHNVVKSA YVVKLDDGKTSSVNI
SAK

SeqID 336

MENHNSIKQTYGLMTTIAMIVGVVIGSGIYFKVDDILKFTGGDVFLGMVILVLGSFSIVFGSL SISELAIRTSSESG
IFSYYEKYVSPALAA TLGLFASFLYLPTLTAVSWAAFTYLGESSLESQIILA AAVYILALS LNMNIFAKRIAGGFQ
SLTTFVKMIPVLIALIGAFWSDKAPQLPQHLTAIQPSNVGWSWVSGLVPLYFAYDGTWTFVSIAP EVKNPKKNLPL
AFVIGPALILLSYLAFFYGLTQILGASFIMTTGNDAINYAANIFGPSVGRLLSFIVILSVLGVANGLLLGTMRLPQ
AFAERGWIKSERMANINLKYQMSLPASLTVAVAIFWLFVHFVMTKFNLLPGSDISEIAVVFNNNTSLIILYVLVLSL
YLKKDIKNKFTGLVSPILAILGGLILFIGSLLSNFFTVLIFQCFCLLFCLICHYIYQKNNPKTHE

SeqID 337

ITEFNDDQHSNHDQKSFKEQILAELEEEANRLRKLREEELYQKEQEAKEAARRTAQIMADYEAQRLKDEQBARAKALE
TKQRL EEQEKARIEAKLLAEAAAREEERRQAEQALASQEBQVINQGMPSRELD SGSKSSEFRTTENVDPID LKADKT
DVATAVPNQETEEIFLVRATDIPTEGENVKLGETSELEPVAKEPPIRVEDLSKEEDIALSAKNKHNKRERRQKADNV
AKRIARILLIILVLLLTAFVGYRFVDSAIPVDSNSNKFVQVEIPIGSGNKLIGQILEKAGVIKSATVFNYYSKF
KNYSNFQSGYYNLKKSMTLDQIAAELEKGGTAEP TKPALGKILITEGYTIKQIAKAIESNKIDTKTTSTPYKADDFL
KLVDQETFIKMKVAKYPNLLGSLPDKSKAIYQLEGYLFPATYNYKDTTLEGLVEDMISTMNTKMAPYNTIKAKNM
SVNDVLTLSLVEKEGSTDEDRRKIASVFYNRLSAGQALQSNIAILYAMGKLGDKTSLAEDAQINTSIKSPYNIYTN
TGLMPGVPDSEPSISAIEATIKPASTDYLYFVADVKTGNVYAKDFETHKANVEKYINSQIN

SeqID 338

MSRMIPGRIRNQGI ELYEQGLVSLISQEGNLLKAKVGDCQIEYSLVTEETKCS CDDFFARKGYCQH LAALBHLKNDP
EGKAILSKVQVQ QESQOETKKKTSFGSVFLDSLII NEDDTIKYQLSAQGEQNPYANDIWWTLKIRRLPDDRSYVIRD
IKAPLNTVRKEA YQIGKQYFETLSLIQFDETSQELIEFLWRLIPSHSSKIDLEFILPNQGRHLSLTRGFFEEGVTL
MNALENFSFESDFHQFNHLYFKELEGEDHLYQFKVIVHRQSIELEIKEKDLKPLFANSYLFYRDTFYHLNLKQEKMV
TAIRSLPIEGDLAKHIHFDLDDQDKLAHLLDFKEIGLVDAPRSFSIHDFKVNFEFDINSQNEILLQMVFDYGNDLT
VHNROELEQLTFASHFKHEEKIFKLLERYGFAPHFSTSHPAYSAQELYDFYTYMLPQFKMGTVSLSAKLESYRLIE
RPQIDIEAKGSLLDISFDFSDLLENDVDQALVALFDNNPYFVNKSGQLVIFDEETKKVSATLQGLRARRAKNGHIEL
DNIAAFQLSELFAHQDNVSFSQHFFYQLIEDLRHPEKFKIPGLSVSASLRDYQLTGVRWLSMLDHYGFAGILADDMGL
GKTLQTISFLSTKLTRDSRVLILSPSSLIYNWQDEFHKKFAPD VDAVAYGSKIRRDEIIAERHQVIITSYSSFRQDF
ETYSEGNYDYILIDEAQVMKNAQTKIAHSLSFEVKNCFALS GTPPIENKLEIWSIFQIILPGLLP GKKBFLKLNPK
QVARYIKPFVMRRRKKEVLPPEL PDLIEMNYPNEMTDSQKVIYLAQLRQIQESIQHSSDADLNRRKIEILSGITRLRQ
ICDTPRLFMDYDGESGKLES LHQLLTQIKENGHRALIFSQFRGMLDIAEREMVAMGLTTYKITGSTPANERHEMTRA
FNAGSKDAFLISL KAGGVGLNLTGADTVVLIDLWNPAVEMQALSAHRLGQKENVEVYRLITRGTIEEKILEMQET
KKHLVTTVL DGNETHASMSVDDIREILGVSK

SeqID 339

VLLTEIKKSPEGLYFDKKIDIKESLMERHSEIMDISDIQVSGHVYREDGLYLLDYNMAYDITLPSSRSMPVVLSEK
QTINEVFIEAENVSTKKELVDQDLVLILEEDDINLEESVIDNILLNIPLRVLAAD EGVGEADLSGKNWSLMTEKQYE
BKQAKEKESNPF AALEGMFDS

SeqID 340

MEVKTAEWMHTFNQKIQSNKDYLSELDTPIGDGDHGGNMARGMTAVIENLDNNEFSSAADVF KTVSMQLLSKVGG A
SGPLYGS AFMGITKAEQSESTISEALGAGLEMIQKRGAELNEKTMVDVWHGVIAIEKNELTEDRIDSLVDATKGM
KATKGRASYVGERSLGHIDPGSFSSGLLFKALLEVGGV

SeqID 341

MQDKLMIRGAHNLKNISVDIPRDKLVVVTGLSGSGKSSLAFTIYAEGQRRYVESLSAYARQFLGNMEKPDVDSI
DGLSPAISIDQKTPSKNPRSTVGTVTEINDYLRLLYARVGTPYCINGHGAITASSVEQIVDKVLALPERTKMQILAP
IIRRRKGQHKSTFEKI QKDG YVRVRIDGDIHDVTEVP ELSKSKMHNIDIVDRLINK EGIRSR LFD SVEAALRLSDG
YVIDTMDGNELLFSEHYSCEPGFTVPELEPR LFSFNAPFGSC TCDGLG I KLEVDIDLVIPDKSKTLREGALVPW
NPISSNYYPTMLEQAMTQFDVDM DTPFEKLSKAEQDLALYSGGEREFH FHYINDFGGERNIDLPFEGVNNINRRYH
ETNSDYTRNV MREYMNELKNCNTCHGYRLNDQALCVRVGEEGLNIGQVSDLSIADHLELLET LRLSSNEQLIARPII
KEIHDRLSFLNNVGLNLYNLRSAGT LSGGESQIRLATQIGSNLSGVLYVLDEPSIGLHQ RDNDRLIDSLKKMRDL
GNTLIVVEHDEDTMMAADWLIDVGP GAGAFGGEIVASGTPKQVAKNTKSITGQYLSGKKVIPVPSERRVGNRFL E I
KGAENNLQNLVDVKFPLGKFLAVTGVS GSGKSTLINSILKKA VAKLNRNSDKPKYVVSLEGIEYVDR LIDIDQSPI
GRTPRSNPATYTG VFDDIRDLFAQTNEAKIRGYKKGRFSFNVGGRCESCSGDGI IKIEMHFLPDVYVPCEVCHGTR
YNSETLEVHYKEKNIAQILDMTVND AVTFFAAIPKIARKLQTIKDVGLGYVTLGQPATTL SGGEAORMKLASELHKR
STGKSLYLDEPTGLHADDIARLLKVLDRFVDDGNTVLVIEHNL DVIKTADHIDLGP EGGIGGGQIVAIGTPEEV
AENPKSYTGYLLKEKLIAR

SeqID 342

MWPEDRIASFRRTLLGWYDQEKRDLPWRRRTTNPYIIVWSEIMLQQTQVNTVIPYYKRFLWFPPQIKDLADAPEEQLL
KAWEGLGYYSRVRNMQKAAQVMVDFGGIFPHTYDDIASLKGIGPYTAGAIASISFNLPEPAVDGNVMRVMARLFEV
NYDIGDPKNRKIFQAIMIILIDPDRPGDFNQALMDLGTDIESAKTFRPDESPIRFFNAAYLNGTYSKYPIKNPKKKP
KPMRIQAFVIRNQNQGYLLLEKNTKGRLLGFWSPFIIETSPLSQQLDLEDDNQSNPIIWQTONETFOREYQLKPQWT
DNHFPNIKHTFSHQWTIELIEGVVKATDLPNAPHLKWAIEDFSLYPFATPQKKMLETYLKQKNA

SeqID 343

LIEITWTVKYITEFIATAFLIILNGAVANVDLKGTKGNNSGWIIIAIGYGLGVMPALMFGNVSGNHINPAFTLGL
AFSGLFPWAHVQGYILAQILGAMFGQLVVMVYQPYFVKTENPNHVLGFSFSTISALDDGQKSSRKAAYINGFLNEFV
GSFVLFFGALALTKNYFGVELVGKLVQAGYDQTTAATRISPYVTGSLAVAHLGIGFLVMTLVASLGGPTGPALNPAR
DLGPRIVHRLLPKQILGQAKEDSKWWYAWVPVLAPIVASILAVALFKLLYL

SeqID 344

MSSYWNYPPELKNIDETNQLIQERIQRVNRKDIEAALSQLTAAAGKQLRPAFFYLFSQLGNKENQDTQQLKKIAASL
EILHVATLIHDDVIDDSPLRRGNMTIQSKFGKDIAVYTGDLFTVFFDLILESMADTFPMRINAKSMRKILMGELDQ
MHLRYNQQQGIHHYLRAISGKTAEFLKASKEGAYFGGAKEVVRLAGHIGFNIGMTFOILDDILDYADKKTFNKP
VLEDLTQGVYSLPLLLAIEBNPDIFKPILDKKTDMATEDMEKIAYLVVSHRGVDKARHLARKFTEKAIKSDINKLPQN
SAKKQLLQLTNYLLKRTI

SeqID 345

MFKIPLEFKELKTDQWVKPFFKQYKVS LVIALFLGFMTFFSASALMFNSGYLISKSSASLPSNILLVYVPIVLTRAFGI
GRPVFRYIERLTSHNWVLRMTSQLRLKLYHSLESNAIFMKRDFRLGDMGLLAEDINYLNLYLRTIFPTIIAWLLY
SFIIATGFFSLWFALMMLLYLAIMIFLPLWSILANGARQTREKELKNHLYTDLTNDNLGISDWIFSQRGQYVAL
HERSESELMALQKKIRSFNNRRALIVELVFGFLAILVVIWASNQFIGHRGGEANWIAAFVLTVFPLSEAFAGLSAAA
QETNKYSDSIHRLNELSEYFETTONQLPNKPYDFSVKNLSFOYKPOEKWVLHHLDDLDIKEGEKIAILGRSGSGKST
LASLLRGDLKASQCKITLGGADVSIVGDCISNYIGVIOQAPYLFNTTLLNNIRIGNQDASEEDVWKVLERVGLKEMV
TDLSDGLYTMVDEAGLRFSGGERHRIALARILLKDVPIVILDEPTVGLDPTEQALLRVFMKELEGKTLVWITHLK
GIEHADRIIFIENGQLELEGGSPQELSQQSSQRYRQLKAADDGDL

SeqID 346

MKKLITEKKVNNVSTVNYLKLGLVSAMFAGGAFVALGSTQGVSASTFTAPQATHPKAERQLTDSEIYERAQKQVLPK
YIQGSLSGILNQHSTLYKQONAAVTPQVSSPKAERQLTDSEIYERAQKQVLPKYIQGSLSGILNQHSTLNA

SeqID 347

MEENMNIKQLKSKTMLGTVALVSASFFASTNADANTYNYAVDVDYLASAEETIAQAHPASNTFPLGQCTWGVKEMATW
AGNWWGNGGDWAASAASAGYTVGTQPRVGSIVCWTGDSYGHVAYVTAVDVPTNKIQVLESNYAGHQWIDNYRGWFD
QNTATPGVVSYYIPN

SeqID 348

MKINQMKKDELFEFGFYLIKKAIEVRKTRAGKDFIAFTFRDDTGEISGNMWDATYNVEEFVAGKIVHMKGRREVYNGT
POVNIQITLRLNIDGEPNDPRDFKEKPPINVDNVREYMEQMLFKIENATWQRVVRALYRKYNKEFFTYPAAKTNHAF
ESGLAYHTATMVRLADSIGDIYPELNKSLMFAGIMLHDLAKVIELSGPDNTEYTIRGNLIGHISLIDEELTKILAE
NIDDTKEEVTVLRHVILSHHGQLEYGSPVRPRIMEAEIIMIDNIDANMMMTTALNRVNEGEMTNRIIFAMDNRSFY
KPNIK

SeqID 349

MLVDKKWRPESDASYFACPKCQNPLIKESNLSKCSDNHCFDLSKFGYVNLGGKKIDEHYDKKSFENRQLVLENGYY
NHILEAISKVLNNSQFHSVLDIGCGEGFYSRQLVNKYKTFLEAFDISKDSIQLAAKSDQSRLVKWVVSDDLNLPIQ
DSSIDIILDI FSPANYKEFRRLVLSDDGILVKVPVAEHVQELREKASQYLKQKQDYSNQKILDHFRNFELISEQKV
QSYNCSQQRQAFIDMTPLLFVSVDKTTIDWASISEITVGALIVIGKRSVSK

SeqID 350

MCLICQRIEMIERNENPYFVKEYETGYLVLDGHQYFQGYCLFSLKKHVTELHELPRDWRNQYLSEADASEIVAKAF
RADKMNIESLGNGDAHLHFHLFPRKTGDLRNYGHNGKGPVWVYPPEKMYADSVRATGAIEKLEKILLDVLG

SeqID 351

MFSDLRKKFVFLTMSILIVVVLFLFAVSNRYNQYWDEYDAYRIVKLVAKNLYLGIFGDEPIALVTIDNQMKVQIQSN
NTDLTNDVIEKSSLLKLEQGKKSRKWSFIYSIKEYKDKTYTIAIMDLASYEVVYARRFLILVFTIFGFCLLAAVSL
YLSRFIVGPVETEMTREKQFVSDASHELKTPIAAIRANVQVLEQQIPGNRYLDHVVSSETKRMEFLIEDLLNLSRLDE
KRSKVNFKKLNLVSLCQEVLLTYESLAYEEKCLNDTIEDDVWIVGEEESQIKQILITILLDNAIRHLSLSKSEIQFSLK
QARRKAILTISNPSAIYSKEVMDNLFERFYQAKDDHADSLSFGLGLSIKAIVERHKGRIIRAYQEKDQLRLEVQLPI
DGFWTNTMIN

SeqID 352

LIILDKKSYDLLFYLLKLEBPETVMAIANALNQSRKVVYHLEKINDALPSDVPQIVSYPRVGILLTEKQKAACRLL
LDEVTDYSYVMKSSERLQLSLVSIVVAKDRITIDRLMQLNDVSRNTILNDLNLRLSELAEKEYNLQLQSTKCRGYFL
DGHPLSIIQYLYKLDDIYHNGSSSFIDLFNHLKSQAFGASTYFSKEVLDYFHHYLFISQSRSLGKKINSQDQGFMIQ
ILPFIILMAYRKMRLSPEVQTSLSNSDFSLVWQRKEYEIAKELADELEENFQLSLDEIEVGLVAMLMLSFRKDRDNHLE
SQDYDDMRATLTSLFKELEERYHLHFVHKKDLLRQLLTHCKALLYRKRYGIFSVNPLTEHIKDKYEELFAITSSSVK
LLEKAWQIKLTDVVAYLTIHLGGELRNSQQSPNKLKLVIVSDEGIAIQKLLKQCQRYLTNSDIEAVFTTEQYQSV
SDLMHVDMVSTSDALESRFPMLVHPVLTDDDIIRLIRFSKKGNCANSNQFTNELEKTIAQYVKEDSERYVLKSKI
EKLIHQELLQDVLPLQSTVC

SeqID 353

MKYFLDTADVSEIRRLNRLGIVDGVTTNPTIISREGRDFKEVINEICQIVDGPVSAEVTGLTCDENVTEAREIAKWS
PNVVVKIPMTEEGLAASVQLSKREGIKTNVTLIFTVAQGLSAMKAGATFISPFVGRLEDIGTDAYALIRDLRHIIDFY
GFQSEIIAASIRGLAHVEGVAKCGAHIAITIPDKTFASLFTHTPLTDKGIETFLKDWDSPKKK

SeqID 354

MSHYSIKLQEVFRLAQFQAARYESHYLESWHLLLAMVLVHDSVAGLTFAYESEVAIEEYEAATILALGRAPKEEIT
NYQFLEQSPALKKILKLAENISIVVGAEDVGTEHVLLAMLVNKDLLATRIELVGFGRQDDGESVRMVDLRKALERH
AGFTKDDIKAIYELRNPKKAKSGASFSDMMKPPSTAGDLADFTRDLSQMAVDGEIEPVGIRDKAISRMVQVLSRKT
NNPVLVGDAVGKKTALAYGLAQRIANGNIPYELRDMRVLELDMMSVAGTRFRGDFEERMNQIIADIEEDGHIILFI
DELHTIMGSGSGIDSTLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVLVEEPNLEDAYEILLGL
KPAYEAFHNVTISDEAVMTAVKVAHRYLTSKNLPDSALDLDDEASATVQMMIKKNAPSLLTEVDQAILDDDMKSASK
ALKASYKGGKKRPIAVTEDHIMATLSRLSGIPVEKLTQADSKKYLNLKELHKKRVIGQDDAVTAISRARRNQSGIR
TGKRPIGSGFMFLGPTGVGKTELAKALAEVLFDDESALIRFDMSEYMEKFAASHLNGAPPGYVGYDEGGELTEKVRNK
PYSVLLFDEVEKAHPDIFNVLLQVLDGVLTDTSRGRKVDFSNTIIIMTSNLGATALRDDKTGVFGAKDISHDYTAMQ
KRIMEELKKAYRPEFINRIDEKVVFHSLSQDNMREVVKIMVKPLILALKDKGMDLKFQPSALKHLAEDGYDIEMGAR
PLRRTIQTQVEDHLSSELLLANQVKEGQVIKIGVSKGKLKFDIAKS

SeqID 355

MVLDEKIEKAQLAQYLDLLESDIVLQADLGDNDSQKVKDFLDEIVAMSDRISLESTHLKRQPSFGIAKKGHESRVIF
SGLPMGHEFTSFILALLQVSGRAPKVEDIIRIKIGIEKTINLETYVSLTCHNCPDVVQAFNIMAVLNPNIHTMTIE
GGMYQDEVKSKGIMSVPTVYKQEEFTSGRATIEQLLEQLDGLDARAFADKGVYDVLVIGGGPAGNSAATYAARKG
LKTGILAEFTFGGQVIETVGIENMIGTLYTEGPKLMAQIEEHTKSYDIDIISQLATGIEKKELVEVTLANGAILQAK
TAILALGAKWRNINVPGEIEFRNKGVTYCPHCDGPLFEGKDVAVIGGGNSGMEAALDLAGVTKHVTVLEFLPELKAD
QVLQERAAKTDNLTLKKNVATKDIVGEDHVTGLNYTDRDTNEEKHIDLEGVVFQIGLVPSTSWLKDSGIELNERQEI
VVDKFGSTNIPGIFAAGDCTDAAYKQIIISMSGSGATAAIGAFDYLRQ

SeqID 356

MIKYQDDFYQAVNGEWAKTAVIPDDKPRTGGFSDLADDIEALMLSTTDKWLADENKPSDTILNHFAFHKMTADYQK
REEVGVSFVPLPIIEYKGLQSFSEFASKVAEYELEGKPNFEPFGVAPDFMNAQLNVLWAEAPGIILPDTTYSEDNE
KGKELLAFWRKSQEDLLPLFGLSEBQEKDILDKVLALDAKLAQYVLSREESSEYVKLYHPYNWEDFTKLAPELPLDA
IFQKILGQKPKVIVPEERFWTEFASDYYSSESNEWELLKADLILSAANAYNAYLTDDIRIKSGVYSRALSGETPQAMDK
KKAAYYLASGPYNQALGLWYAGEKFSPEAKADVEHKIATMIDVYKSRLEKADWLAQSTREKAIMKLNVTIPHIYPE
KLPEYTKKIIDPKLSLIVENATNLDKISIAYGWSKWNKPVRSEWHMPAHMVNAYYDPPQONQIVFPAILQEPFYAL
EQSSSANYGGIGAVIAHEBISHAFDTNGASFDEHGSLNNWWTDEDFAFKKLTDKVVEQFDGLESYGAKVNGKLTVSE
NVADLGGVACALBAQRESDFSARDFFINFATIWRMKARDEYMQMLASVDVHAPAQWRTNITVTNFEFHFKEFDVKD
GDNMWRPVEKRVIIW

SeqID 357

MSKILFFGEPLIRITPKENDYFADSISTKLFYGGSEVNTARALQGGQDTKLLSALPNNPIGNSFLQFLKAQGIDTH
SIQWGERVGLYFLEDSFACRKGEVVYDRDHSSLHDFRINQIDFDQLFEGVSLFHFSGITLSLDESIOEITLLLLKE
AKKREITISLDLNFRLSKLISPKNAKILFSQFATFADICFGIEPLMVDSDQTTFFNRDEATIEDVKERMISLINHDFD
QVIFHTKRLQDEWGRNHYQAYIANRKOEFVTSKEITTAVNQIRIGSGDAFVAGALYQLLQHSDSKTVIDFAVASASLK
CALEGDNMFETVTAVNKVLNQSKDIIR

SeqID 358

MKSRRKDKLVRLTTTLLVFLGGVWFYNYKNDNVEPTVTSASDQTTTFTIQTISPTAIEISKTYDLYASVLLAQAIL
ESSSGQSDLSKAPNYNLFGIKGEYKGSVQMPTLEDDGKGNMTQIQAPFRAYPNYSASLYDYAELVSSQKYASVWKS
NTSSYKDATAALTGLYATDTAYASKLNQIIETYSLDAYDK

SeqID 359

MADVKNVNNEDSRGQKQDLKAKLFHIKIGSVPLPVYVCLALLILLAGFLQKLPVNMLGGFAVILTMGWFLGTIGASI
PGFKNFPGGPAILSLLVPSILVFFNLINKNVLESTNMLMKQANFLYFYIACLVSGSILGMNRKMLIQGLLRMIFPMLL
GMVCAMVGTTFVGVILGLEWRHTLFYIVTPVLAGGIGEGILPLSLGYSSITGVASEQLVAQLIPATIIIGNFFAILCT
ALLNRLGEKKPHLSGGQQLVRLNKGEDMSDIIADHSGPIDVKKMGGVLTACSLFIFGHLLQQLTGFPFVLMIVAA

AILKYINVI PRETQNGAKQLYKFISGNFTFPLMAGLGLLYIPLKDVVATLSIQYFIVVISVVFVVISVGFVSRFLN
MNFVEAGIISACQSGMGGTGDVAILSTADRMNLMPPAQVATRLGGAITVITMTAILRMLF

SeqID 360

RGKKAGKYTTSDGYIFDAKDIKDOTGTGYVIPHMTHEHWVPKDLSESELKAAQEFLSGKSEANQDKPKTGKTAQEI
YEAIEPKAIVKPEDLLFGIAQATDYKNGTFVIPHKDHVHYVELKWFDEEKDLLADSDKTSLEDYLATAKYMMHPE
KRPKVEGWGKDAEIKYKEKDSNKADKPSAPTNDKSTSNSSDKNLSAAEVFKQAKPEKIVPLDKIAAHMAYAVGFEDD
QLIVPHHDHYHNVPMWFDKGLWKAPEGYTLQQLFSTIKYYMEHPNELPKEKGWGHDSHDNKGSNKDNKAKNYAPD
EEPEDSGKVTHNYGYFDVNVKGSDEERPEKQDESELDVEYELGMAQNAKKYGMQRQSFEKQLIQLSNKYSVSFESFNY
INGSQVQVTKKDGSKVLVDIKTLTEVK

SeqID 361

MNRKKTVIIISALSVALFGTGVGAYQLGSYNAQKSDNSVSVYKTDKSDSKAQATAVNKTPDQISKEEGISAEQIVVKI
TDDGYVTSBGDHYHYNGKVYDAIIEELIMKDPSYVFNKADVINEVKDGYIIVKNGKYLYLKEGSKRTNVRTKE
QIQKQREWSKGGSGKSGESGKHSSAKTQALSASVREAKASGRYTTDDGYVFSPTDVIDDMGDAFLVPHGDHFIYIPKA
DLSPSELSSAAQAYWNRKTGRSGNSSKPSNSSSYIHASAPSGNVSTGRHANAPISIPRVTHANHWSKPAGNHATAPKH
HAPTTPKINKDSALDKMLKRLYAQPLYARHVESDGLVYDPAQVNAFTAIGVSI PHGNHFFHIHYKDMSPLELEATRM
VAEHRGHHIDALGKKDSTEKPKHISHEPNKEPHTEEHHAHTPKDQRKGKPNSSQIVYSAQEIIEAKKLVTQHLMTV
FLMPKILKKIQVQVMSFHI

SeqID 362

MAKFGFLSVLBEELDKHLQYDFAMDWDKKNHTVEVTFILEAQNSSAIETVDDQGETSSEDIVFEDYVLFYNFVKSRF
DAEDYLVITIPYEPKKGLSREFLAYFAETLINEVATEGLSDLMDFLTDDSIIEFGLSWDTDAFENGRAELKETEFYPYR
RY

SeqID 363

MNTKQRFSSIRKYKLGAVSVLLGLTFLGGITNVAADSVINKPSDIAVEQQVKDSPTSANETPTNNTSSALASTAQD
NLVTKANNSPSTETQPVASHSQATETFSVANQPVVESTQEVSKTPLTKQNLAVKSTPAISKETPQNIDSNKIITVPK
VWNTGYKGEFTVVAIIDSGLDINHDLQNDSTKAKYQNEQQMNAKAKAGINYGKWNKVI FGHNYVDVNTTELKE
VKSTSHGMHVTSIATANPSKKDTNELIYGVAPEAQVMFMRVFSDEKRGTPALYVKAIEDAVKLGADSSINLSLGGAN
GSLVNADDRLIKALEMARLAGVSVIAAGNDGTFGSGASKPSALYPDYGLVGSPPSTAREAISVASYNNTTLVNKVFN
IIGLENNRNLLNGLAAYADPKVSDKTFEVGKQYDYFVVGKGNNDNDYKDKTLNGKIALIERGDI TFKKVVNAINHGA
VGAIIFNNKAGEANLTMSLDPEASAI PAIFTQKEFGDVLAKNNYKIVFNNIKNKQANPNAGVLSDFSSWGLTADGQL
KPDLSAPGGSIYAAINDNEYDMMSGTSMASPHVAGATALVKQYLLKEHPELKKGDIERTVKYLLMSTAKAHLNKDTG
AYTSPPRQGGAGIIDVAAAVQTGLYLTGGENNYGSVTLGNIKDKISFDVTVHNINKVAKDLHYTTYLTNDQVKDGFVT
LAPQQLGTFGTGTIRIEPGQTQTTIDIDVSKYHMDLKKVMPNGYFLEGYVRFTDPVDGGEVLSIPYVGFKGFEQNL
EVLEKSIYKLVANKEKGFYFQPKQTNVEPGSEDTALMTTSSEPIYSTDGTSP IQLKALGSYKSIDGKWILQLDQKG
QPHLAISPNDQNDQDAVAVKGVFLRNFNLRKAVYRADDVNLQKPLWVSAPQAGDKNYSGNTENPKSTFLYDTEWK
GTTTIDGIPLEDGKYKYVLTYYSDVPGSKPQQMVFDITLDRQAPTLTATYDKDRRI FKARPAVEHGESGIFREQVCY
LKKDKDGHYNSVLRQGGEDGILVEDNKVFIKQEKNGSFILPEKVNDFSHVYTTVEDYAGNLVSAKLEDLINIGNKNG
LVNVKVSFPELNSNVDIDFSYSVKDDKGNIIKKQHKGKDLNLLKLPGTYTDFDLFLYDEERANLISPKSVTVTISEK
DSLKDVLFKVNLKKAAALLVEFDKLLPKGATVQLVTKTNTVVDLPKATYSPTDYGNIPVGDYRLNVTLPSGYSTLE
NLDDLLSVSKEDQVNLTKLTLINKAPLINALAEQTDIITQPVFYNAGTHLKNNYLANLEKAQTLIKNRVEQTSIDNA
IAALRESRQALNGKETDTSLLAKAILAEITEIKGNYQFVNASPLSQSTYINQVQLAKNLLQKPNVTQSEVDKALENLD
IAKNQNLNGHETDYSGLHHMIIKANVLKQTS SKYQNASQFAKENYNNLIKKAELLSNRQATQAEELLNQIKATEQ
ELDGRDVRNYSQSLNDNDSLNTTPIPNPQALIFKKGMTKESEVAQKRVLGVTSTQDNQKVKTNKLPKTGB
STPKITYTILLFSLSMLGLATIKLSIKRE

SeqID 364

MNNNEKKVKYFLRKTAYGLASMSAAFAVCSGIVHADTSSGISASIPHKKQVNLGAVTLKNLISKYRGNDKAIATILLS
RVNDFNRASQDTLPQLINSTEABIRNIIYQGQIGKQNKPSVTTHAKVSDQELGKQSRRSQDI IKSGLFLSSDQKDIL
VKSISSSKDSQLILKFVTOATQLNNAESTKAKQMAQNDVALIKNISPEVLEEYKEKIQRASTKSQVDEFVAEAKKV
NSNKETLVNQANGKKQEI AKLENLSNDEMLRYNTAIDNVVKQYNEGKLNITAMNALNSIKQAAQEAQKNLQKQYA
KKIERISSKGLALS KKAKEIYEKHSILPTPGYVADSVGTYLNRFRDKQTFGNRSVWTGQSGLEAKKMLDEVKLL
KELQDLTRGTKEBKPDVKPEAKPEAKPNIQVPKQAPTEAAKPALSPEALTRLTTWYNQAKDLLKDDQVKDKYVDIL
AVQKAVDQAYDHVEEGKFTTTDQANQLANKLRDALQSLELKDKKVAKPEAKPEAKPEAKPEAKPEAKPEAKPE
AKPDVKPEAKPDVKPEAKPEAKPEAKSEAKPEAKLEAKPEAKPATKKSNTSGNLAAKKAIENTKYSKKL PSTGEAA
SPLLAIVSLIVMLSAGLITIVLKHKK

SeqID 365

MAKDIKFSADARSAMVRGVDILADTVKVTGLPKGRNVLEKAFGSPLITNDGVTIAKEIELEDHFENMGAKLVSEVA
SKTNDIAGDGTATVLTQAI VREGLKNVTAGANPIGIRRGIEATVSAAVEELKEIAQPVSGKEAIAQVAAVSSRSE
KVGEYISEAMGRVGN DGVTIEESRGMETELEVEGMQFDRGYLSQYMTVDNEKMVSELENPYILITDKKISNIQEI
LPLLEVLKTNRPILLIADVDGEALPTLVLNKIRGTFNVVAVKAPGFGDRRKAMLEDIAITGGTVVTEDLGLDLK
DATMQVLGQSAKVTVDKDSTVIVEGAGDSSAIANRVAI IKSQMEATTSDFDREKLQERLAKLAGGVAVIKVGAATET

ELKEMKLRIEDALNATRAAVEEGIVSGGGTALVNVIEKVAALKLNGDEETGRNIVLRALEEPVRQIAYNAGYEGSVI
IERLKQSEIGTFGNAANGWEVDMVTGTIIDPVKVTRSAQNAAVASLILTTTEAVVANKPEPEAPTAPAMPDPSMMGG
F

SeqID 366

VVENLEKPIGVSYKNSPSMSKRTAIRMKSSRFSILLYSVLSTLLAIANPLLTYFANGLQTQNLTYGLMMTKGQIPY
SDVFATGGFLYYVTIALSYLLGSSIWLLIVQFIAYVYVSGIYFYKLVYYVAQSEIVSIGMTLIFYIMNIVLGFEGMYP
IQWALPFMLISLWFLIKFCVDNIVDEAFIFYGILAAFSFLIDPQTLLIFWLCSFVLLTATNIKQKQSLRGFYQFLCVV
FGMILLIAYTVGYFMFNLISSYIDKAIFFYPFTYFARTNHSFLLSLAIQIVVLLGSGCLFGLWDFIQNRKKASYQIG
LNFIACIFIYAIMAIFSRDFNLVHFLPALPFGLLLTSNKITILYQKVIDRRSHRRQYFSGKSLIVDLFVKTTYLP
LLLVSLSIGLLVYNTYQNVTLSEKERRDISHYLTTKIDRDGKIYVWDKVASIYSQTRLKSASQFVLPHTAQAQKNEK
ILKDELLQHGAKYFILNKNELKPNELKSDIKKHYYQEVPLSNITHFVLYRFK

SeqID 367

MAKPTISPGMQQYLDIKENYPDAFLLFRMGDFYELFYDDAVKAAQILEISLTSRNKNAEKPIPMAGVPYHSAQQYID
VLVELGYKVAIAEQMEDPKKAVGVVKREVQVVTPTGTVVESTKPDSSANNFLVAIDSQDQQTFLAYMDVSTGEFQAT
LLTDFESVRSEILNLKAREIVVGQYLTDEKNHLLTKQMNLLSYEDERLNDIHLIDEQLTDLEISAAEKLLQYVHRT
QKRELSHLQKVHYEIKDYLOMSYATKNSLDLENARTSKKHGSLYWLLEDETKTAMGTRMLRTWIDRPLVSMNRIKE
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SeqID 368

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SeqID 369

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SeqID 370

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SeqID 371

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SeqID 372

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SeqID 411

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SeqID 423

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SeqID 425

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SeqID 444

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gcttatcatg	gagctaagtc	tgcatcagat	tatctggaga	ggttgattgt	tcagggaatgg	240
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SeqID 445

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SeqID 446

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SeqID 447

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SeqID 448

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gggaaaaaag	gactccaaaa	ttctaaatta	aaggggttgg	taagaaatc	aactgggttg	1560
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SeqID 449

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 VMRDMMPTLIQKEGLSDSAFWGNHILNTDNIHIFGLSEVESNREKIFYQPRGRMEYKGNFSQKTINRFKSGVYHG
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 SYLNNEGSAAYQEFKETRDFLOTYEGVYSAEKNKIYEKLKRVGQTIRTLAESKGYDLEHHLARRVMDLRERLANN
 ILRSFREAPQIQDVQLEKNLESFVLNQKILEQHPASVVKSKAWQKLGYPVKAGEQPLEIIRPVYKSYDKHGK
 GIGRPEFVSDTVYDLSQLTENIQLKSLTLKDLSLFSSNELKELVDAAKLKTNPTERRERRELGTYRYALKLSILESSQ
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SeqID 450

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 KTKPDGSFEFNHDMIDGVKTTIGYGKLTGKVNHHYVANKDGSVTAQVDSVTLYKYEYRNVAQNAAVNQINIVFRVLTQD
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 YKFVDQLQHTHDLRLDKVVAKVVDVTLKDGTVIKKGTNLGEYTTETVYNKTTGHYELAFKKEFLAKVSRESEFGADDF
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SeqID 451

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 WRSWVNFQYRDYNHNEEGDDRFATVKEIHQQYKVPNKTEYTPGEGGVVPLHETRNLTGLTLKSQMLWQNRFTS
 RYLTAERILGLLSTPSGDYYIDDSTTNLITMGITRSKGGEAHIAPIIDINSRAEQPSLTIADPKGEHYQSSYKTM
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 EKVYKRGNVITLDDYTKKPVLDHIKVTVLNKKQDDNLLQKEDIDLIIYSDNPKVIYLVTPPNRTEYNSIVSLFLDQLF
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SeqID 452

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SeqID 453

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 LCELLNQSKTTVISLKKRLAQYGLIEEVKAGSHQPNRIYLTDKLVPIYIKG

SeqID 454

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 EALILMEEMEFGFNQFKRKLNNFQYTKSAELRGFSRAGIGVMESQHRKITRYMKKRGMYWTIQGAETMSQLIVLSY
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SeqID 455

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 GIGRPEFVSDTVYDISQLTENIQLKSLTLKDLSLFSSNBLKELVDAAKLKTNPTEERERRELGTIRYALKLSILESSQ
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 IQLPPIQLWTELGLVHHIQDENILTLLKGTSTTKQAYIBELQTHISIFQLKYQINNRRNQISQLSDEATIKEMRIAN
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SeqID 456

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NFTKGQIKNGVAQIDFGNGYTGNIIVVNDVTVPEVHKDILDKEGKSINNSTVKLGDEVYKLEGVVVPANRGYDLFE
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SeqID 457

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WRSWVNFQYRDYNHNEEGDDRFATVKEIHQQYKVPNKTTETYPGEGGVPLHETRKNLTGLTLKSQLWQNRFTS
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EKVYKRGNVITLDDYTKKPVLDHIKVTVLNKQDDNLLQKEDIDLISDNPKVIYLVTPPNRTEYNSIVSLFLDQLF
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VYIKSTAPATNEYFSKELGTRTITRRRRSSNILDEANPNVSIENPRQELLTPTQLSKLQGEAVILRGVKGGRDNAGR
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SeqID 458

MTDNRFQALKENFEKGS PKRRVPTS RPIAAQKAPESYNKKGRYPFSLHQDVRYDKLEALVAYHGAKSASDYLERLIV
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SeqID 459

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SeqID 460

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SeqID 461

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SeqID 462

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SeqID 466

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SeqID 468

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SeqID 470

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SeqID 471

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SeqID 472

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SeqID 473

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SeqID 474

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SeqID 475

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SeqID 476

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SeqID 477

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SeqID 478

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SeqID 479

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SeqID 480

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SeqID 481

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SeqID 482

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SeqID 483

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SeqID 484

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LDTIGVYLKDRNKEDILIKRVNGIKIAILGYSYGYNGMEANVSKSDYEKMSDLDTKKIKQDIKAEKEADITIVMP
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LMDVTIEKKGQKTVIKVKAHPTLVEAKANGRYVEEGFPAYDYRTLVLLEDYIEGGKKRSTIDQTMKOKVDKAYKEMN
ELVNLKW

SeqID 485

MKHFFDYKTMVARKLSISFIAVILLGSILLSLPIFOYANAPKTHYIDHLFTTVSMVCVTGLSVFPISKVYNGWGQI
VAILLMQTGGLGLVTILMSLSYYTLRRKMSLNDQTLQLSAITYNSSQDLKKYLYMIFKVTLTLEVLAAASILAIDFIPR
FGLGHGIFNSIFLAWSAFCNAGFDNLGATSLAQFKLNPLVNIIVCFLLIISGGLGFAVWKDLIEATIQTSHKGPKLIK
TFPKRLSNHSLVLKTTTIIILLTGTLSSWLLFEGNFRTIANLSLPKQLMVSFFQTVMTRTAGFSTIDYTQTDFAFNL
VYIIQMLIGGAPGGTAGGFKVTVIAIILLLFKAELSGQSQVTFHYRTIPSSIQKTLTILTTFFFIILISGYLLLLLEL
NPHIDPFSLFEEASSALATVGVTMTNTNQLSLGGRIVIMFLMFIGRVGPITVLLSILQKKEKEIHYAETEILG

SeqID 486

MLDELKAIKSPKLWITMAGVALIPTLYNVIFLSSMWDPYGNTKNLPVAVVNQDKSAKLNKGTISIGKDMEDNLSKN
DSLDFHFTTAKRAEKELEKGHYIMVITFPKDLRSKATTLMTKEPERLNITYKTTKGRSFVASKMSETAANKLKDEVA
ESITGTYTESVFKNMGSMKTCINKAADGSQELLNGSNKLQDGSQTLTSLNDVLASSSQTFSGGANKLNSGINLYTDG
VGTLNGLTSLSDGVTAYTTGVHKLSEGSQKLDDKSQALVEGSEKLTDLGLQQLSQATQLKPEQERTLQNLSDGLKNL
NQIITNLQSTATTDSDTNSKLFNFLTSTIESSTKALMNTAAADKQKQMTAVQSTSAFKSLTPEQQSQITSAVTGTPTS
AETIAANISSNIENMKTVLSEASSAPSNNGSQNLQTLSTGANNLVKAISSLDKIQLKPTATKQLYQGSQTLTKGI
TDYTNVAGQLRKGAFTLDSKSNQLISGTQKASQGAQTLDSKSDQLRDGAGQLASGSDRIADGSNKLGGGHQOLIDGL
TELSGGVSQLSLSSLGKAGDQLSMVSVNKDANANAVSPTTIKHEDYDSVDTNGVGMAPYMSVALMVVALSANVIFAK
ALSGKEPANRFSWAKNKLINGFIATLAATILFFAVQFIGLKPDPYKTYFIILLTAWTLMALVTALVGWDNRYSF
LSLLILLFLQLGSSAGTYPIELSPKFFQTIQFPLPMTYSVSGSLRETISLTGVDVNHQWRMLVIFLVSSMILALLIYRKO
ED